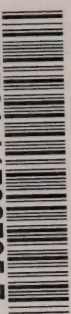


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CANADIAN ENERGY

Supply and Demand 1993 - 2010

APPENDIX TO TECHNICAL REPORT

NATIONAL ENERGY BOARD

DECEMBER 1994

CANADIAN ENERGY

Supply and Demand 1993 - 2010

FOREWORD

In July 1994, the National Energy Board published its analysis of the long-term Canadian energy outlook, entitled *Canadian Energy Supply and Demand 1993-2010, Trends and Issues*. A companion report, entitled *Canadian Energy Supply and Demand 1993-2010, Technical Report* was published in December 1994. This Appendix is published with the latter report and contains data and other information pertaining to the analysis and projections.

APPENDIX TO TECHNICAL REPORT

NATIONAL ENERGY BOARD



©Minister of Public Works and Government Services
Canada 1994

Cat. No. NE23-15/3-1994E
ISBN 0-662-22753-0

This report is published separately in both official
languages.

Copies are available on request from:

Regulatory Support Office
National Energy Board
311 Sixth Avenue S.W.
Calgary, Alberta
T2P 3H2
(403) 292-4800

For pick-up at the NEB office:

Library
Ground Floor

Printed in Canada

©Ministre des Travaux publics et des Services
gouvernementaux Canada 1994

No. de cat. NE23-15/3-1994F
ISBN 0-662-99555-4

Ce rapport est publié séparément dans les deux
langues officielles.

Exemplaires disponibles sur demande auprès du :

Bureau du soutien à la réglementation
Office national de l'énergie
311, sixième avenue s.-o.
Calgary (Alberta)
T2P 3H2
(403) 292-4800

En personne, au bureau de l'Office :

Bibliothèque
Rez-de-chaussée

Imprimé au Canada

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Appendix 1 – Abbreviations, Conversion Factors and Energy Content Factors

Table A1-1

Abbreviations of Names and Terms

AAGR	Average Annual Growth Rate
AAPG	American Association of Petroleum Geologists
Act	the National Energy Board Act
ALCAN	Aluminum Company of Canada Ltd.
Alt Macro	Alternative Macroeconomic assumption
AMP	(Alberta) Average Market Price
ANG	Alberta Natural Gas Company
ATF	Aviation Turbine Fuel
BC Hydro	British Columbia Hydro and Power Authority
(the) Board or NEB	(the) National Energy Board
CAPP	Canadian Association of Petroleum Producers
CEC	California Energy Commission
CFC	Chlorinated Fluorocarbons
CGA	Canadian Gas Association
CNOPB	Canada-Newfoundland Offshore Petroleum Board
CNSOPB	Canada-Nova Scotia Offshore Petroleum Board
COGLA	Canada Oil and Gas Lands Administration
Current Tech (or CT)	Current Technology case
DFI	Decision Focus Incorporated
DFO	Diesel Fuel Oil
DOE	Department of Energy (U.S.)
DRI	Data Resources Incorporated
DSM	Demand Side Management
EAF	Electric Arc Furnace
ECAR	East Central Area Reliability Coordination Agreement (a NERC Region)
EDM	Energy Demand Model
EIA	Export Impact Assessment or Energy Information Administration (U.S.)
ENC	U.S. East North Central Region
ENRON	Enron Corporation
ERCB	Energy Resources Conservation Board (Alberta)
EUPC	Electric Utility Planning Council (Alberta)
FERC	Federal Energy Regulatory Commission (U.S.)
FOBT	Free on board, trimmed
Foothills	Foothills Pipe Lines (Yukon) Ltd.

Table A1-1 (continued)

Abbreviations of Names and Terms

FSU	Former Soviet Union
FTA	Free Trade Agreement
GAD	Gross air dried
GAR	Gross as received
GATT	General Agreement on Tariffs and Trade
GDP	Gross Domestic Product
GEA	Geological Exploration Associates
GHG	Greenhouse Gas(es)
GRI	Gas Research Institute
GWP	Global Warming Potential
HFO	Heavy fuel oil
High Tech (or HT)	High Technology case
IEA	International Energy Agency
IGCC	Integrated (Coal) Gasification Combined Cycle
Informetrica	Informetrica Limited
IPL or Interprovincial	Interprovincial Pipe Line Company
IPP	Independent Power Producer
IRP	Integrated Resource Planning
LDC	Local Distribution Company
LFO	Light fuel oil
LNG	Liquified Natural Gas
LPG	Liquified Petroleum Gas
MAPP	Mid-Continent Area Power Pool (a NERC Region)
MBP	Market-Based Procedure
MECL	Maritime Electric Co. Ltd. (Prince Edward Island)
MMS	Minerals Management Service (U.S.)
Mogas	Motor Gasoline
NAFTA	North American Free Trade Agreement
NARG	North American Regional Gas Model
NB Power	New Brunswick Electric Power Corporation
NEPOOL	New England Power Pool (U.S. power pool area)
NERC	North American Electric Reliability Council
NGL	Natural Gas Liquids
NGMA	Natural Gas Market Assessment
NGV	Natural Gas Vehicles

Table A1-1 (continued)

Abbreviations of Names and Terms

N&LH	Newfoundland and Labrador Hydro
NOVA	NOVA Corporation of Alberta
NPC	National Petroleum Council (U.S.)
NRCAN	Natural Resources Canada
NSPI	Nova Scotia Power Incorporated
NUG	Non-Utility Generator (electricity)
NYPP	New York Power Pool (U.S. power pool area)
OECD	Organization for Economic Cooperation and Development
OPEC	Organization of Petroleum Exporting Countries
PCI	Pulverized Coal Injection
PEL	Petroleum Economics Limited
PGC	Potential Gas Committee (U.S.)
PGT	Pacific Gas Transmission Company
PNW	U.S. Pacific Northwest
POWEREX	British Columbia Power Exchange Corporation
RDP	Real Domestic Product
RR/P	Remaining reserves to production ratio
RTG	Regional Transmission Group
SaskPower	Saskatchewan Power Corporation
Sproule	Sproule Associates Limited
TCPL or TransCanada	TransCanada PipeLines Limited
Trans Mountain (or TMPL)	Trans Mountain Pipe Line Company Ltd.
U.S.	United States
USGS	United States Geological Survey
VOC	Volatile Organic Compounds
WCSB	Western Canada Sedimentary Basin
WEFA	Wharton Econometric Forecasting Associates
WSCC	Western Systems Coordinating Council (NERC Region)
WTI	West Texas Intermediate crude oil
1986 Report	<i>National Energy Board, Canadian Energy Supply and Demand 1985-2005, Summary and detailed reports, October, 1986</i>
1988 Report	<i>National Energy Board, Canadian Energy Supply and Demand 1987-2005, Summary and detailed reports, September, 1988</i>
1991 Report	<i>National Energy Board, Canadian Energy Supply and Demand 1990-2010, Summary and detailed reports, June 1991</i>

Table A1-2

Units

Prefix	Multiple	Symbol
kilo-	10^3	k
mega-	10^6	M
giga-	10^9	G
tera-	10^{12}	T
peta-	10^{15}	P
exa-	10^{18}	E
GJ	gigajoule	= 10^9 Joules(J)
TJ	terajoule	= 10^{12} J
PJ	petajoule	= 10^{15} J
EJ	exajoule	= 10^{18} J
kW	kilowatt	= 10^3 Watts
kW.h	kilowatt hour	= 10^3 W.h
MW	megawatt	= 10^3 kW
MW.h	megawatt hour	= 10^3 kW.h
GW	gigawatt	= 10^6 kW
GW.h	gigawatt hour	= 10^6 kW.h
TW	terawatt	= 10^9 kW
TW.h	terawatt hour	= 10^9 kW.h
m ³	= cubic metre	
L	= litre	
kPa	= kilopascal (pressure)	
kg/m ³	= kilograms per cubic metre (density)	
t	= tonne	
kt	= kilotonne	
Mt	= megatonne	
°API	= degrees gravity on American Petroleum Institute scale (See Glossary)	
Btu	= British thermal unit	
psia	= pounds per square inch absolute	
ppmv	= parts per million by volume	
Mcf	= thousand cubic feet	
Bcf	= billion cubic feet	
Tcf	= trillion cubic feet	
bbf	= barrel	
MMbd	= million barrels per day	
C\$ or \$	= Canadian dollars	
US\$	= United States dollars	

Table A1-3

Conversion Factors - Metric Units to Imperial Units

Metric Units	Imperial Equivalent Units
1 cubic metre of oil (15°C and 922 kg/m ³)	= 6.292 26 barrels (60°F and 22°API) for conventional heavy crude oil
(15°C and 855 kg/m ³)	= 6.292 58 barrels (60°F and 34°API) for conventional light crude oil
(15°C and 739 kg/m ³)	= 6.294 03 barrels (equilibrium pressure, 60°F and 60°API) for pentanes plus
1 cubic metre of natural gas (101.325 kilopascals and 15°C)	= 35.301 01 cubic feet (14.73 psia and 60°F)
1 cubic metre of ethane (liquid) (equilibrium pressure and 15°C)	= 6.330 barrels of ethane (equilibrium pressure and 60°F)
	= 9.930 thousand cubic feet of ethane gas (14.73 psia and 60°F)
1 cubic metre of propane (liquid) (equilibrium pressure and 15°C)	= 6.300 barrels of propane (equilibrium pressure and 60°F)
1 cubic metre of butanes (liquid) (equilibrium pressure and 15°C)	= 6.297 barrels of butanes (equilibrium pressure and 60°F)
1 tonne	= 1.102 311 short tons
1 kilojoule	= 0.948 213 3 British thermal units (Btu)
1 gigajoule (GJ)	= approximately 0.95 million Btu, or 0.95 thousand cubic feet of natural gas at 1 000 Btu per cubic foot
1 petajoule (PJ)	= approximately 0.95 billion cubic feet of natural gas, or 165 000 barrels of oil, or 0.28 terawatt hours of electricity
1 litre (L)	= approximately .22 Imperial gallon
1 kilogram (kg)	= approximately 2.2 pounds
1 metre (m)	= approximately 3.28 feet

Table A1-4

Gross Energy Content Factors

Natural Gas		37.23 MJ/m ³ ¹
Ethane (liquid)		18.36 GJ/m ³
Propane (liquid)		25.53 GJ/m ³
Butanes (liquid)		28.62 GJ/m ³
Crude Oil	- Light	38.51 GJ/m ³
	- Heavy	40.90 GJ/m ³
	- Pentanes Plus	35.17 GJ/m ³
Coal	- Anthracite	27.70 GJ/tonne
	- Bituminous	27.60 GJ/tonne
	- Subbituminous	18.80 GJ/tonne
	- Lignite	14.40 GJ/tonne
	- Average domestic use	22.20 GJ/tonne
Petroleum Products	- Aviation Gasoline	33.52 GJ/m ³
	- Motor Gasoline	34.66 GJ/m ³
	- Petrochemical Feedstocks	35.17 GJ/m ³
	- Naphtha Specialties	35.17 GJ/m ³
	- Aviation Turbo Fuel	35.93 GJ/m ³
	- Kerosene	37.68 GJ/m ³
	- Diesel	38.68 GJ/m ³
	- Light Fuel Oil	38.68 GJ/m ³
	- Lubes and Greases	39.16 GJ/m ³
	- Heavy Fuel Oil	41.73 GJ/m ³
	- Still Gas	41.73 GJ/m ³
	- Asphalt	44.46 GJ/m ³
	- Petroleum Coke	42.38 GJ/m ³
	- Other Products	39.82 GJ/m ³
Electricity		
Secondary		3.6 MJ/kW.h
Primary	- Hydro	3.6 MJ/kW.h
	- Nuclear	12.1 MJ/kW.h ²

¹ Assumes 15°C, 101.325 kPa and free of water vapour. The energy content of 37.23 MJ/m³ is approximately the equivalent of 1 000 Btu per cubic foot in the Imperial system. The actual energy content will vary depending on the amount of natural gas liquids (mostly ethane) contained in the gas.

² Typical value. Actual values at nuclear generating plants depend on specific plant efficiencies.

Appendix 2 - Macroeconomic Assumptions

Table A2-1

Real Gross Domestic Product - Canada and Provinces

Average Annual Growth Rates (%)	Reference Case		
	1991-2010	1993-1998	1999-2010
Atlantic Provinces	1.6	2.1	1.5
Newfoundland	1.7	2.3	1.4
Prince Edward Island	1.7	2.1	1.4
Nova Scotia	1.6	2.0	1.6
New Brunswick	1.6	2.1	1.4
Québec	2.3	3.0	2.2
Ontario	2.9	3.9	2.7
Manitoba	2.1	2.8	2.1
Saskatchewan	1.5	2.0	1.5
Alberta	2.2	2.7	2.1
British Columbia and Territories	2.9	3.7	2.5
Canada	2.5	3.3	2.3

Note: The numbers on this table have been rounded.

Table A2-2

Real Gross Domestic Product - Canada and Provinces

Average Annual Growth Rates (%)	Alternative Macro Case		
	1991-2010	1993-1998	1999-2010
Atlantic Provinces	1.6	2.0	1.4
Newfoundland	1.6	2.2	1.3
Prince Edward Island	1.5	2.0	1.1
Nova Scotia	1.6	1.9	1.6
New Brunswick	1.6	2.1	1.4
Québec	2.4	3.1	2.3
Ontario	3.1	4.0	2.9
Manitoba	2.1	2.7	2.0
Saskatchewan	1.5	1.9	1.5
Alberta	2.2	2.8	2.1
British Columbia and Territories	2.9	3.7	2.5
Canada	2.6	3.4	2.4

Notes: The numbers on this table have been rounded.

Appendix 3 - Energy Prices

Table A3-1

World Oil Price

	1990	1991	1992(1)	1993	1994	1995	1996
WTI At Cushing:							
(US\$ 1993 / cubic metre)	168.81	141.91	132.40	116.42	119.57	121.14	122.71
(US\$ 1993 / barrel)	26.83	22.55	21.04	18.50	19.00	19.25	19.50
Netback Price of							
Crude at Edmonton:							
(C\$ 1993 / cubic metre)(2)	145.51	146.56	147.17	140.59	144.57	146.56	148.56
(C\$ 1993 / barrel)	23.12	23.29	23.39	22.34	22.97	23.29	23.61
	1997	1998	1999	2000	2001	2002	2003
WTI At Cushing:							
(US\$ 1993/ cubic metre)	124.29	125.86	127.43	129.01	130.58	132.15	133.73
(US\$ 1993 / barrel)	19.75	20.00	20.25	20.50	20.75	21.00	21.25
Netback Price of							
Crude at Edmonton:							
(C\$ 1993 / cubic metre)	150.55	152.54	154.53	156.52	158.51	160.50	162.50
(C\$ 1993 / barrel)	23.92	24.24	24.56	24.87	25.19	25.51	25.82
	2004	2005	2006	2007	2008	2009	2010
WTI At Cushing:							
(US\$ 1993 / cubic metre)	135.30	136.87	138.45	140.02	141.59	143.17	144.74
(US\$ 1993 / barrel)	21.50	21.75	22.00	22.25	22.50	22.75	23.00
Netback Price of							
Crude at Edmonton:							
(C\$ 1993 / cubic metre)	164.49	166.48	168.47	170.46	172.45	174.44	176.44
(C\$ 1993 / barrel)	26.14	26.45	26.77	27.09	27.40	27.72	28.04

(1) 1992 is last year of actual data.

(2) The Netback Price at Edmonton reflects the WTI price adjusted for the Canadian/U.S. dollar exchange rate, crude oil transportation costs and oil quality differentials.

Table A3-2
Canadian Natural Gas Fieldgate Price

(\$1993/Gigajoule)

	1990	1991	1992	1993(1)	1994	1995	1996
Current Tech Case	1.63	1.39	1.33	1.58	1.67	1.77	1.86
High Tech Case	1.63	1.39	1.33	1.58	1.56	1.53	1.51
	1997	1998	1999	2000	2001	2002	2003
Current Tech Case	1.94	2.02	2.1	2.18	2.26	2.43	2.59
High Tech Case	1.49	1.46	1.44	1.41	1.39	1.47	1.55
	2004	2005	2006	2007	2008	2009	2010
Current Tech Case	2.76	2.92	3.09	3.34	3.59	3.83	4.08
High Tech Case	1.63	1.71	1.79	1.9	2.01	2.13	2.24

(1) 1993 is last year of actual data.

Table A3-3
Real Average Retail Prices by Region and Sector

(\$1993/Gigajoule)

		Atlantic								
		1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential										
Light Fuel Oil		9.92	10.49	11.29	11.13	11.23	11.26	11.26	11.42	11.55
Electricity		18.50	18.89	19.02	19.13	19.13	19.13	19.13	19.13	19.13
Commercial										
Light Fuel Oil		8.41	8.89	9.58	9.42	9.52	9.55	9.55	9.71	9.84
Heavy Fuel Oil		4.02	3.11	3.65	3.78	4.13	4.43	5.76	5.97	6.15
Electricity		24.95	26.86	26.93	26.99	26.99	26.99	26.99	26.99	26.99
Industrial										
Heavy Fuel Oil		3.05	2.51	2.99	3.12	3.45	3.73	4.97	5.29	5.67
Electricity		14.40	16.58	16.63	16.67	16.67	16.67	16.67	16.67	16.67
		Québec								
		1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential										
Light Fuel Oil		10.39	10.48	11.15	10.93	11.04	11.11	11.26	11.43	11.58
Electricity		16.01	17.24	17.34	17.61	17.71	17.71	17.71	17.71	17.71
Natural Gas (Current Tech Case)		7.69	7.61	8.04	8.21	8.32	8.29	8.63	9.52	10.91
Natural Gas (High Tech Case)		7.69	7.61	8.04	8.21	8.12	7.90	7.68	8.07	8.69
Commercial										
Light Fuel Oil		8.80	8.88	9.44	9.22	9.33	9.40	9.55	9.72	9.87
Heavy Fuel Oil		3.79	3.11	3.54	3.62	3.97	4.28	5.76	5.97	6.15
Electricity		18.83	23.49	23.64	24.03	24.19	24.19	24.19	24.19	24.19
Natural Gas (Current Tech Case)		6.32	6.34	6.56	6.73	6.83	6.85	7.27	8.15	9.53
Natural Gas (High Tech Case)		6.32	6.34	6.56	6.73	6.64	6.47	6.32	6.71	7.33
Industrial										
Heavy Fuel Oil		2.88	2.51	2.90	2.99	3.32	3.61	4.97	5.29	5.67
Electricity		9.90	11.55	11.54	11.52	11.51	11.51	11.51	11.51	11.51
Natural Gas (Current Tech Case)		4.00	4.27	4.16	4.36	4.48	4.66	5.44	6.51	8.26
Natural Gas (High Tech Case)		4.00	4.27	4.16	4.36	4.32	4.32	4.47	5.00	5.87

(1) 1991 is last year of actual data.

Table A3-3 (Continued)
Real Average Retail Prices by Region and Sector

(\$1993/Gigajoule)									
Ontario									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential									
Light Fuel Oil	10.13	10.26	10.92	10.72	10.82	10.89	11.05	11.22	11.37
Electricity	17.83	19.77	20.46	20.58	20.58	20.58	20.58	20.58	20.58
Natural Gas (Current Tech Case)	5.73	5.64	6.00	6.16	6.26	6.23	6.55	7.37	8.66
Natural Gas (High Tech Case)	5.73	5.64	6.00	6.16	6.08	5.87	5.66	6.03	6.60
Commercial									
Light Fuel Oil	8.58	8.70	9.25	9.05	9.15	9.21	9.37	9.54	9.69
Heavy Fuel Oil	4.78	3.47	3.87	3.88	4.19	4.46	5.71	5.94	6.14
Electricity	21.00	25.56	26.46	26.62	26.62	26.62	26.62	26.62	26.62
Natural Gas (Current Tech Case)	4.65	4.55	4.72	4.87	4.96	4.98	5.37	6.18	7.46
Natural Gas (High Tech Case)	4.65	4.55	4.72	4.87	4.79	4.63	4.49	4.85	5.42
Industrial									
Heavy Fuel Oil	3.63	2.80	3.17	3.21	3.50	3.76	4.93	5.27	5.66
Electricity	11.45	14.19	14.81	14.92	14.92	14.92	14.92	14.92	14.92
Natural Gas (Current Tech Case)	3.36	3.41	3.06	3.24	3.34	3.50	4.20	5.17	6.76
Natural Gas (High Tech Case)	3.36	3.41	3.06	3.24	3.19	3.19	3.31	3.77	4.54
Manitoba									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential									
Light Fuel Oil	10.50	11.45	11.89	11.69	11.79	11.85	12.01	12.19	12.34
Electricity	13.10	15.06	15.38	15.38	15.38	15.38	15.38	15.38	15.38
Natural Gas (Current Tech Case)	5.42	4.94	5.20	5.37	5.48	5.46	5.78	6.64	7.97
Natural Gas (High Tech Case)	5.42	4.94	5.20	5.37	5.29	5.08	4.87	5.24	5.84
Commercial									
Light Fuel Oil	7.35	7.38	7.46	7.25	7.36	7.43	7.60	7.79	7.95
Heavy Fuel Oil	6.19	6.22	6.74	7.01	7.81	8.56	12.14	12.64	13.07
Electricity	20.36	21.20	21.81	21.81	21.81	21.81	21.81	21.81	21.81
Natural Gas (Current Tech Case)	3.79	3.35	3.40	3.56	3.66	3.68	4.07	4.89	6.18
Natural Gas (High Tech Case)	3.79	3.35	3.40	3.56	3.48	3.33	3.19	3.55	4.12
Industrial									
Heavy Fuel Oil	3.00	2.31	2.54	2.67	3.01	3.32	4.83	5.17	5.55
Electricity	10.17	11.31	11.41	11.41	11.41	11.41	11.41	11.41	11.41
Natural Gas (Current Tech Case)	2.69	2.81	2.56	2.75	2.85	3.00	3.70	4.66	6.24
Natural Gas (High Tech Case)	2.69	2.81	2.56	2.75	2.69	2.69	2.80	3.26	4.01

(1) 1991 is last year of actual data.

Table A3-3 (Continued)

Real Average Retail Prices by Region and Sector

(\$1993/Gigajoule)

Saskatchewan

	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential									
Light Fuel Oil	9.56	10.29	10.95	10.75	10.86	10.92	11.08	11.25	11.40
Electricity	19.26	19.36	19.39	19.40	19.40	19.40	19.40	19.40	19.40
Natural Gas (Current Tech Case)	4.47	4.19	4.58	4.57	4.78	4.96	5.85	6.81	7.90
Natural Gas (High Tech Case)	4.47	4.19	4.58	4.57	4.59	4.58	4.72	5.14	5.57
Commercial									
Light Fuel Oil	7.16	7.11	7.54	7.35	7.45	7.51	7.67	7.85	7.99
Heavy Fuel Oil	6.03	5.99	6.58	6.51	6.94	7.32	8.99	9.37	9.69
Electricity	33.16	33.30	33.59	33.69	33.69	33.69	33.69	33.69	33.69
Natural Gas (Current Tech Case)	3.98	3.72	4.01	4.05	4.24	4.41	5.23	6.15	7.28
Natural Gas (High Tech Case)	3.98	3.72	4.01	4.05	4.06	4.05	4.17	4.57	5.04
Industrial									
Heavy Fuel Oil	3.53	2.94	3.29	3.28	3.54	3.76	4.73	5.06	5.44
Electricity	17.99	19.21	19.27	19.29	19.29	19.29	19.29	19.29	19.29
Natural Gas (Current Tech Case)	2.82	2.96	3.05	3.24	3.42	3.60	4.35	5.34	6.92
Natural Gas (High Tech Case)	2.82	2.96	3.05	3.24	3.27	3.29	3.45	3.92	4.68

Alberta

	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential									
Light Fuel Oil	8.85	9.53	10.16	9.96	10.06	10.13	10.29	10.46	10.61
Electricity	16.54	16.54	16.96	16.96	16.96	16.96	16.96	16.96	16.96
Natural Gas (Current Tech Case)	3.55	3.48	3.92	4.09	4.20	4.32	4.62	5.41	6.65
Natural Gas (High Tech Case)	3.55	3.48	3.92	4.09	4.02	3.97	3.76	4.12	4.67
Commercial									
Light Fuel Oil	6.47	6.46	6.87	6.67	6.78	6.84	7.00	7.17	7.32
Heavy Fuel Oil	3.27	2.57	2.90	2.92	3.18	3.41	4.46	4.65	4.81
Electricity	18.98	21.69	23.22	23.22	23.22	23.22	23.22	23.22	23.22
Natural Gas (Current Tech Case)	2.65	2.47	2.85	3.01	3.12	3.24	3.54	4.33	5.57
Natural Gas (High Tech Case)	2.65	2.47	2.85	3.01	2.94	2.89	2.69	3.04	3.59
Industrial									
Heavy Fuel Oil	3.00	2.51	2.87	2.92	3.21	3.47	4.66	4.99	5.37
Electricity	11.02	13.39	14.83	14.83	14.83	14.83	14.83	14.83	14.83
Natural Gas (Current Tech Case)	1.26	1.29	1.62	1.80	1.96	2.13	2.81	3.74	5.27
Natural Gas (High Tech Case)	1.26	1.29	1.62	1.80	1.81	1.83	1.92	2.35	3.06

(1) 1991 is last year of actual data.

Table A3-3 (Continued)

Real Average Retail Prices by Region and Sector

(\$1993/Gigajoule)									
British Columbia and Territories									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential									
Light Fuel Oil	10.41	11.23	11.98	11.78	11.88	11.94	12.10	12.28	12.43
Electricity	14.48	14.89	14.88	14.88	14.87	14.87	14.87	14.87	14.87
Natural Gas (Current Tech Case)	5.30	5.01	5.25	5.48	5.57	5.67	5.95	7.02	7.76
Natural Gas (High Tech Case)	5.30	5.01	5.25	5.48	5.38	5.31	5.09	5.59	5.87
Commercial									
Light Fuel Oil	8.83	9.52	10.11	9.89	10.00	10.07	10.24	10.42	10.58
Heavy Fuel Oil	4.11	3.23	3.66	3.71	4.04	4.34	5.74	5.97	6.17
Electricity	19.38	19.86	19.89	19.90	19.93	19.94	19.94	19.94	19.94
Natural Gas (Current Tech Case)	4.77	4.53	4.70	4.94	5.04	5.14	5.44	6.56	7.35
Natural Gas (High Tech Case)	4.77	4.53	4.70	4.94	4.84	4.76	4.53	5.06	5.35
Industrial									
Heavy Fuel Oil	3.12	2.60	3.00	3.07	3.38	3.65	4.95	5.29	5.68
Electricity	9.79	10.67	10.69	10.69	10.72	10.72	10.72	10.72	10.72
Natural Gas (Current Tech Case)	2.22	2.13	2.27	2.49	2.64	2.79	3.38	4.49	6.01
Natural Gas (High Tech Case)	2.22	2.13	2.27	2.49	2.46	2.43	2.44	2.98	3.70

(1) 1991 is last year of actual data.

Appendix 4 - Canadian Energy Demand

Table A4-1

End Use Demand by Fuel and Sector - Canada - Historical Data

(Petajoules)										
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Residential										
Electricity	344.5	359.6	377.2	395.3	411.3	425.4	429.5	465.7	500.0	503.0
Oil	404.1	373.7	328.4	280.1	281.5	272.3	248.8	260.5	283.4	269.1
Natural Gas	463.7	520.2	505.0	524.5	562.9	499.0	475.9	527.8	560.2	551.6
Propane and Butanes	19.2	23.5	21.5	21.1	22.2	19.3	13.6	16.3	21.3	19.6
Wood	88.1	97.1	100.0	103.0	107.9	109.1	96.0	100.2	94.4	102.1
Other	4.0	4.0	3.2	5.5	6.2	6.1	5.6	4.9	4.4	4.6
Total	1323.6	1378.1	1335.3	1329.5	1392.0	1331.2	1269.4	1375.4	1463.7	1449.9
Commercial										
Electricity	268.3	276.4	287.8	294.9	304.4	328.6	345.3	371.8	385.3	382.2
Oil	192.3	172.1	161.0	145.9	107.7	105.2	100.4	107.6	110.0	101.1
Natural Gas	323.0	356.1	351.1	364.1	388.6	411.9	343.5	373.5	395.8	387.8
Propane and Butanes	15.6	19.2	17.1	16.4	17.9	14.6	16.0	18.2	23.9	21.3
Other	1.5	2.3	2.0	2.8	2.6	2.8	2.4	2.6	2.2	0.4
Total	800.8	826.1	819.0	824.1	821.3	863.2	807.5	873.6	917.3	892.8
Industrial										
Electricity	523.9	490.4	513.2	576.6	616.2	632.6	666.7	675.1	661.6	662.4
Oil	452.5	371.3	321.6	319.3	281.3	312.8	303.7	315.3	326.6	314.6
Natural Gas	646.6	596.8	601.8	683.1	722.3	724.0	781.3	857.4	869.6	854.8
Coal, Coke and Coke Oven Gas	226.4	205.2	216.4	240.1	245.8	236.6	234.8	244.3	234.3	189.9
Steam	45.2	62.2	49.9	45.8	33.3	31.6	27.2	16.0	24.0	20.8
Hog Fuel and Pulping Liquor	327.0	330.1	352.5	337.7	386.5	410.0	429.1	425.0	411.1	401.4
Propane and Butanes	24.0	24.1	25.0	25.6	31.2	28.6	21.3	26.8	28.3	23.8
Natural Gas for Bitumen	31.3	36.4	29.2	34.6	25.7	51.2	63.5	72.3	63.9	72.9
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2276.9	2116.4	2109.6	2262.7	2342.3	2427.3	2527.6	2632.2	2619.5	2540.6
Non-Energy										
Asphalt	128.3	108.3	112.0	105.3	119.7	122.7	133.5	120.9	129.2	124.3
Lubes and Greases	40.5	34.5	34.6	36.3	36.1	37.8	40.3	36.4	36.6	36.6
Naphtha	18.5	13.7	14.6	10.3	10.3	10.3	10.1	9.7	9.2	9.4
Petroleum Coke	35.9	24.8	27.4	31.4	28.1	40.1	43.2	39.8	30.6	18.3
Natural Gas	95.8	102.9	146.2	157.0	170.8	148.2	132.2	156.7	158.0	150.0
Oil	138.8	112.8	104.7	116.2	134.1	126.9	123.0	121.9	120.5	133.9
Propane and Butanes	16.8	11.4	17.7	22.1	27.6	15.6	27.2	39.0	30.2	33.7
Ethane	34.5	22.2	34.6	54.4	68.6	83.7	109.3	110.1	120.7	113.7
Other Oil	17.6	19.3	8.6	7.3	7.6	11.7	21.0	11.7	18.0	12.8
Total	526.8	450.0	500.2	540.2	602.7	597.0	639.8	646.1	653.0	632.6
Transportation										
Motor Gasoline	1290.3	1187.9	1150.6	1140.8	1134.5	1138.7	1151.6	1183.6	1206.2	1176.5
Diesel Fuel Oil	345.1	322.9	315.4	363.8	382.9	383.0	405.5	447.1	459.6	441.9
Aviation Turbo - Total	160.4	145.9	140.3	148.9	154.5	156.9	167.4	182.1	186.6	179.7
Aviation Gasoline	7.5	6.0	5.9	5.9	5.9	5.6	5.9	5.6	5.4	5.5
Heavy Fuel Oil	104.7	76.4	56.2	50.1	39.7	41.6	49.0	57.5	60.4	60.1
Other	4.2	5.7	9.5	15.3	17.0	21.2	28.4	33.5	31.7	31.7
Total	1912.3	1744.7	1677.9	1724.9	1734.5	1747.0	1807.8	1909.3	1950.0	1895.4
Total End Use										
Electricity	1139.2	1128.9	1181.1	1269.4	1334.7	1389.4	1444.4	1515.5	1550.0	1550.6
Oil	3336.5	2969.5	2781.2	2761.6	2723.8	2765.7	2803.3	2899.6	2982.6	2883.7
Natural Gas	1560.4	1612.3	1633.4	1763.6	1870.9	1835.1	1798.9	1990.0	2049.8	2019.7
Coal, Coke and Coke Oven Gas	231.4	210.6	220.8	244.5	250.6	241.2	238.8	247.6	236.7	192.6
Steam	45.7	63.2	50.6	46.4	34.0	32.2	27.6	16.4	24.4	21.0
Wood	88.1	97.1	100.0	103.0	107.9	109.1	96.0	100.2	94.4	102.1
Hog Fuel and Pulping Liquor	327.0	330.1	352.5	337.7	386.5	410.0	429.1	425.0	411.1	401.4
Other	111.9	103.5	122.4	155.1	184.4	182.9	214.1	242.3	254.6	240.2
Total	6840.3	6515.2	6442.1	6681.4	6892.7	6965.7	7052.2	7436.6	7603.6	7411.3

Table A4-2
End Use Demand by Fuel and Sector - Canada

(Petajoules)								
	Current Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	495.4	506.0	514.4	519.6	527.9	559.1	606.4	658.7
Oil	246.0	251.5	244.9	241.1	234.6	216.8	204.8	190.6
Natural Gas	555.1	578.3	584.9	589.7	594.7	618.5	631.7	654.4
Propane and Butanes	14.3	21.0	21.2	21.3	21.4	22.2	23.2	24.3
Wood	102.5	92.7	92.9	92.8	92.8	92.8	93.3	94.5
Other	4.3	4.2	4.1	4.0	3.9	3.5	3.2	3.0
Total	1417.7	1453.7	1462.4	1468.4	1475.5	1512.8	1562.7	1625.4
Commercial								
Electricity	396.9	401.8	407.6	414.7	423.7	464.4	503.8	548.6
Oil	85.7	88.0	85.7	84.3	83.8	84.8	86.6	88.0
Natural Gas	403.5	416.3	422.4	427.3	434.7	454.8	475.2	490.9
Propane and Butanes	16.9	14.3	14.3	14.4	14.6	15.0	15.4	15.7
Other	0.2	2.0	2.0	2.2	2.3	3.0	3.7	4.5
Total	903.3	922.4	932.1	942.9	959.1	1022.0	1084.6	1147.5
Industrial								
Electricity	674.0	681.9	705.7	732.1	770.3	897.1	1002.8	1094.6
Oil	284.0	259.3	272.9	288.7	314.1	389.1	468.2	521.9
Natural Gas	834.6	832.1	852.9	867.8	890.3	916.7	936.6	969.2
Coal, Coke and Coke Oven Gas	193.0	185.3	193.4	202.9	214.4	241.5	265.6	284.1
Steam	24.6	16.8	17.5	18.4	19.5	22.1	24.4	26.1
Hog Fuel and Pulping Liquor	404.7	394.6	406.7	418.8	435.2	473.7	505.9	534.8
Propane and Butanes	28.2	23.5	24.3	25.1	26.3	29.5	32.4	34.7
Natural Gas for Bitumen	63.0	65.2	63.2	69.0	72.3	108.4	99.0	9.7
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5
Other	0.0	0.0	0.3	0.7	1.0	3.1	5.6	8.3
Total	2506.0	2458.8	2537.0	2623.5	2743.5	3081.3	3340.5	3571.0
Non-Energy								
Asphalt	122.3	118.6	120.3	147.2	156.7	133.4	136.7	140.2
Lubes and Greases	33.9	34.0	34.2	34.5	35.0	36.8	38.8	40.8
Naphtha	9.9	10.0	10.0	10.1	10.2	10.8	11.4	12.1
Petroleum Coke	31.2	31.8	32.4	33.1	33.7	37.1	40.9	45.0
Natural Gas	156.0	154.2	158.3	164.9	171.3	198.7	222.6	247.9
Oil	124.7	129.5	128.4	131.1	134.2	149.2	163.7	179.7
Propane and Butanes	40.4	52.4	59.7	61.1	69.5	89.7	101.2	113.9
Ethane	113.9	108.2	102.8	115.5	129.1	172.4	200.8	233.7
Other Oil	16.6	16.8	17.0	17.2	17.4	18.5	19.7	21.0
Total	649.0	655.5	663.2	714.8	757.2	846.5	935.8	1034.2
Transportation								
Motor Gasoline	1137.7	1156.2	1190.9	1203.9	1232.4	1333.7	1422.4	1491.8
Diesel Fuel Oil	421.3	431.3	441.3	448.0	454.4	489.0	533.9	576.9
Aviation Turbo - Total	161.3	137.4	164.7	177.7	186.6	218.5	244.0	268.9
Aviation Gasoline	4.2	3.8	4.0	4.3	4.6	5.4	5.4	5.4
Heavy Fuel Oil	66.4	68.8	69.1	69.7	70.3	73.5	79.5	84.8
Other	34.4	34.2	37.8	39.4	41.1	49.3	57.6	65.9
Total	1825.3	1831.7	1907.8	1943.0	1989.3	2169.4	2342.7	2493.6
Total End Use								
Electricity	1569.2	1592.6	1631.1	1670.0	1725.9	1926.1	2120.1	2310.5
Oil	2745.2	2736.9	2816.0	2890.9	2968.2	3196.5	3456.0	3667.0
Natural Gas	2014.9	2048.2	2086.1	2123.8	2169.2	2307.0	2379.1	2390.0
Coal, Coke and Coke Oven Gas	195.2	187.3	195.3	204.7	216.2	242.8	266.7	372.5
Steam	24.8	16.9	17.6	18.5	19.5	22.1	24.4	26.1
Wood	102.5	92.7	92.9	92.8	92.8	92.8	93.3	94.5
Hog Fuel and Pulping Liquor	404.7	394.6	406.7	418.8	435.2	473.7	505.9	534.8
Other	244.7	252.6	256.7	272.9	297.4	370.8	420.7	476.4
Total	7301.2	7321.9	7502.5	7692.4	7924.4	8631.8	9266.3	9871.8

(1) 1991 is last year of actual data.

Table A4-2 (Continued)

End Use Demand by Fuel and Sector - Atlantic

(Petajoules)

	Current Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	40.5	43.1	44.3	45.2	46.1	49.8	51.8	54.0
Oil	53.0	56.4	56.2	55.5	54.9	53.4	54.0	53.6
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	1.5	2.4	2.4	2.4	2.4	2.5	2.5	2.6
Wood	23.8	20.4	20.6	20.5	20.5	20.4	20.2	19.9
Other	1.0	1.0	0.9	0.9	0.8	0.6	0.5	0.4
Total	119.8	123.3	124.4	124.5	124.8	126.7	129.1	130.6
Commercial								
Electricity	25.4	26.5	26.7	27.1	27.6	29.5	31.2	33.3
Oil	29.5	29.8	29.9	30.1	30.4	31.3	32.4	33.2
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	2.5	2.1	2.1	2.1	2.1	2.2	2.4	2.5
Other	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.5
Total	57.6	58.7	59.0	59.6	60.4	63.4	66.3	69.5
Industrial								
Electricity	48.5	47.1	48.0	49.4	50.5	60.5	65.6	68.1
Oil	44.3	43.6	43.0	42.9	43.4	44.6	45.6	45.7
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal, Coke and Coke Oven Gas	3.8	3.9	3.9	3.9	3.9	4.1	4.0	3.8
Steam	1.5	1.3	1.3	1.3	1.3	1.5	1.6	1.6
Hog Fuel and Pulping Liquor	46.6	45.7	45.8	46.4	47.1	52.3	54.8	55.5
Propane and Butanes	2.1	1.9	1.9	1.9	1.9	2.2	2.3	2.3
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Total	146.9	143.5	143.9	145.8	148.2	165.2	174.1	177.3
Non-Energy								
Asphalt	12.9	12.3	12.5	14.8	15.6	13.5	13.7	13.9
Lubes and Greases	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2
Naphtha	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	4.2	4.2	4.2	4.4	4.4	4.8	5.0	5.2
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	19.3	18.6	18.8	21.4	22.1	20.5	21.0	21.5
Transportation								
Motor Gasoline	96.0	97.3	96.9	98.6	101.3	104.8	109.3	113.3
Diesel Fuel Oil	50.2	52.2	52.8	53.5	54.1	57.4	62.1	65.5
Aviation Turbo-Total	18.7	11.4	19.4	20.9	21.9	25.2	27.6	29.9
Aviation Gasoline	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Heavy Fuel Oil	13.8	9.6	14.4	14.6	14.7	15.6	17.1	18.4
Other	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9
Total	179.2	170.9	184.1	188.2	192.6	203.7	217.0	228.2
Total End Use								
Electricity	114.4	116.7	119.0	121.6	124.2	139.7	148.7	155.4
Oil	325.0	319.1	331.7	337.8	343.1	353.0	369.2	381.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal, Coke and Coke Oven Gas	5.0	4.9	4.8	4.8	4.7	4.7	4.5	4.2
Steam	1.6	1.4	1.3	1.3	1.3	1.5	1.6	1.6
Wood	23.8	20.4	20.6	20.5	20.5	20.4	20.2	19.9
Hog Fuel and Pulping Liquor	46.6	45.7	45.8	46.4	47.1	52.3	54.8	55.5
Other	6.3	6.8	6.9	7.0	7.2	7.9	8.5	9.0
Total	522.7	515.0	530.2	539.5	548.1	579.5	607.5	627.0

(1) 1991 is last year of actual data.

Table A4-2 (Continued)
End Use Demand by Fuel and Sector - Québec

(Petajoules)

	Current Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	173.9	184.0	187.0	188.4	192.1	201.7	214.1	234.8
Oil	67.9	68.6	65.5	64.0	59.7	52.0	41.3	27.9
Natural Gas	22.6	24.6	25.4	25.9	26.6	29.6	31.0	32.1
Propane and Butanes	2.3	3.1	3.1	3.1	3.1	3.2	3.3	3.4
Wood	36.6	33.5	33.4	33.2	33.1	32.5	31.8	31.8
Other	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total	303.7	314.2	314.8	315.0	315.1	319.4	321.9	330.3
Commercial								
Electricity	108.8	110.5	111.7	112.9	114.7	122.1	130.2	139.4
Oil	20.4	21.0	20.4	19.8	19.7	19.5	19.6	19.7
Natural Gas	52.0	59.0	59.5	60.1	60.8	61.7	61.4	59.2
Propane and Butanes	2.3	1.9	1.9	1.9	2.0	2.0	2.0	2.0
Other	0.0	0.4	0.5	0.5	0.6	0.8	1.0	1.2
Total	183.6	192.8	194.1	195.3	197.8	206.1	214.2	221.4
Industrial								
Electricity	254.0	256.6	266.8	272.8	285.7	330.4	369.7	410.3
Oil	73.4	73.2	78.9	83.5	90.1	105.4	143.2	161.2
Natural Gas	131.4	131.7	131.0	129.5	131.4	124.3	101.2	99.5
Coal, Coke and Coke Oven Gas	20.0	13.6	14.0	14.3	14.9	16.6	18.3	20.0
Steam	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Hog Fuel and Pulping Liquor	68.8	74.8	77.0	78.2	81.4	88.6	95.5	102.5
Propane and Butanes	3.2	3.2	3.3	3.4	3.6	4.0	4.4	4.8
Natural Gas for Bitumen	0.0	0.0	0.1	0.1	0.2	0.7	1.2	1.8
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.1	0.1	0.2	0.7	1.2	1.8
Total	550.9	553.2	571.2	582.1	607.5	670.0	733.5	800.2
Non-Energy								
Asphalt	31.5	30.6	31.0	37.2	40.1	34.5	35.5	36.4
Lubes and Greases	5.6	5.5	5.6	5.6	5.8	6.0	6.3	6.7
Naphtha	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4
Petroleum Coke	17.4	17.7	18.1	18.4	18.8	20.8	22.9	25.3
Natural Gas	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	7.8	7.0	7.2	7.3	7.9	9.1	9.7	10.5
Propane and Butanes	14.3	8.9	9.1	9.1	9.4	10.8	11.7	12.7
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	2.7	2.7	2.8	2.8	2.9	3.2	3.5	3.9
Total	81.2	73.6	74.9	81.8	86.1	85.7	91.1	96.9
Transportation								
Motor Gasoline	238.9	245.7	257.7	257.8	258.3	263.8	280.4	297.9
Diesel Fuel Oil	84.0	85.4	86.5	87.1	87.6	89.8	95.3	101.5
Aviation Turbo-Total	29.5	30.1	29.9	32.4	34.2	41.1	47.0	53.1
Aviation Gasoline	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8
Heavy Fuel Oil	19.7	21.3	20.1	20.1	20.1	20.0	20.6	20.9
Other	2.6	2.7	3.6	4.0	4.5	6.8	9.2	11.5
Total	375.3	385.9	398.5	402.1	405.5	422.4	453.3	485.7
Total End Use								
Electricity	537.9	552.3	566.9	575.5	594.2	656.3	716.6	787.5
Oil	600.5	610.7	625.5	638.1	647.2	667.4	727.6	767.2
Natural Gas	206.9	215.5	216.5	216.3	219.8	217.6	196.6	194.7
Coal, Coke and Coke Oven Gas	20.0	13.6	14.0	14.3	14.9	16.6	18.3	20.0
Steam	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Wood	36.6	33.5	33.4	33.2	33.1	32.5	31.8	31.8
Hog Fuel and Pulping Liquor	68.8	74.8	77.0	78.2	81.4	88.6	95.5	102.5
Other	23.9	19.3	20.1	20.5	21.2	24.6	27.5	30.7
Total	1494.7	1519.8	1553.5	1576.3	1612.0	1703.6	1814.0	1934.6

(1) 1991 is last year of actual data.

Table A4-2 (Continued)
End Use Demand by Fuel and Sector - Ontario

(Petajoules)

	Current Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	167.1	163.8	166.6	168.1	169.9	177.2	195.7	210.7
Oil	56.0	56.8	54.2	53.3	52.7	46.3	45.0	44.9
Natural Gas	267.3	291.8	294.4	296.7	300.0	313.1	320.7	333.7
Propane and Butanes	4.8	7.4	7.4	7.5	7.5	7.8	8.2	8.6
Wood	22.8	21.5	21.6	21.7	21.9	22.4	23.6	24.9
Other	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7
Total	518.7	542.2	545.1	548.1	552.8	567.6	593.9	623.5
Commercial								
Electricity	153.3	153.4	156.2	159.9	162.9	183.2	201.2	221.5
Oil	17.3	17.7	16.3	15.5	14.8	14.5	13.9	12.9
Natural Gas	161.7	173.5	176.4	178.1	179.6	185.9	192.2	195.4
Propane and Butanes	4.9	5.0	5.0	5.0	5.0	5.1	5.0	4.9
Other	0.0	1.2	1.3	1.3	1.4	1.8	2.3	2.8
Total	337.2	350.9	355.1	359.9	363.8	390.5	414.6	437.5
Industrial								
Electricity	154.0	155.0	161.1	173.3	187.0	223.4	253.3	276.1
Oil	51.3	47.3	54.0	63.1	77.8	124.9	156.4	184.1
Natural Gas	336.0	331.7	344.4	352.8	359.6	356.3	366.8	369.1
Coal, Coke and Coke Oven Gas	158.6	154.3	161.7	170.6	181.0	205.5	227.4	243.8
Steam	22.8	15.2	16.0	16.8	17.9	20.3	22.4	24.1
Hog Fuel and Pulping Liquor	67.8	68.6	71.9	75.9	80.5	91.4	101.2	108.4
Propane and Butanes	12.4	8.9	9.3	9.8	10.4	11.8	13.1	14.0
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.2	0.4	0.6	2.0	3.5	5.2
Total	802.8	781.1	818.6	862.7	914.8	1035.6	1144.1	1224.9
Non-Energy								
Asphalt	35.2	34.0	34.6	44.0	47.0	38.8	40.0	41.1
Lubes and Greases	15.7	15.8	15.9	16.0	16.2	17.2	18.2	19.3
Naphtha	7.2	7.2	7.3	7.3	7.4	7.8	8.3	8.8
Petroleum Coke	4.3	4.4	4.5	4.6	4.7	5.2	5.7	6.3
Natural Gas	7.3	14.0	11.7	12.4	12.9	15.1	17.2	19.6
Oil	99.8	105.5	104.0	106.6	108.9	120.8	132.3	145.3
Propane and Butanes	23.5	29.6	28.1	29.2	28.9	32.5	37.1	42.0
Ethane	9.8	9.8	9.6	10.3	10.1	11.4	12.9	14.7
Other Oil	6.2	6.3	6.3	6.4	6.5	6.8	7.1	7.5
Total	209.1	226.6	222.0	236.8	242.6	255.6	278.9	304.7
Transportation								
Motor Gasoline	422.8	426.1	442.8	458.6	481.7	554.5	583.7	592.7
Diesel Fuel Oil	121.3	125.2	131.0	133.6	136.1	150.9	168.3	185.8
Aviation Turbo - Total	47.2	39.2	48.3	52.3	55.2	66.1	75.4	84.9
Aviation Gasoline	1.0	0.9	1.0	1.0	1.1	1.4	1.5	1.5
Heavy Fuel Oil	12.9	13.7	13.7	13.9	14.2	15.5	17.6	19.7
Other	13.3	12.8	14.6	15.3	16.0	19.5	23.0	26.4
Total	618.4	617.9	651.4	674.8	704.4	807.9	869.4	911.1
Total End Use								
Electricity	475.5	473.4	485.4	503.0	521.6	586.6	653.7	712.9
Oil	898.2	900.2	933.8	976.2	1024.2	1170.7	1273.3	1354.9
Natural Gas	773.1	811.0	828.3	841.5	853.9	873.4	901.3	923.5
Coal, Coke and Coke Oven Gas	158.6	154.3	161.7	170.6	181.0	205.5	227.4	243.8
Steam	22.9	15.2	16.0	16.8	17.9	20.3	22.5	24.1
Wood	22.8	21.5	21.6	21.7	21.9	22.4	23.6	24.9
Hog Fuel and Pulping Liquor	67.8	68.6	71.9	75.9	80.5	91.4	101.2	108.4
Other	67.5	74.3	73.5	76.4	77.2	86.8	97.9	109.3
Total	2486.2	2518.6	2592.1	2682.1	2778.2	3057.1	3300.9	3501.7

(1) 1991 is last year of actual data.

Table A4-2 (Continued)
End Use Demand by Fuel and Sector - Manitoba

(Petajoules)

		Current Tech Case						
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	23.6	22.6	22.9	23.2	23.4	25.0	26.4	27.6
Oil	11.4	11.0	10.8	10.5	10.1	9.7	9.7	9.6
Natural Gas	26.4	25.5	25.7	26.1	26.5	27.3	26.5	26.3
Propane and Butanes	0.8	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Wood	3.1	2.4	2.4	2.5	2.5	2.6	2.7	2.7
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	65.6	62.1	62.6	62.9	63.2	65.2	66.0	67.1
Commercial								
Electricity	13.6	12.8	13.2	13.3	13.7	14.4	15.3	16.3
Oil	2.2	1.9	1.9	1.9	1.8	1.9	2.0	2.1
Natural Gas	27.1	28.4	29.0	29.4	30.1	31.5	33.3	35.4
Propane and Butanes	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	43.4	43.3	44.4	44.8	45.8	48.0	50.8	54.0
Industrial								
Electricity	18.7	19.5	19.6	20.2	20.9	23.6	26.8	29.5
Oil	5.2	4.8	5.0	5.3	5.6	6.8	7.6	8.3
Natural Gas	16.5	13.5	13.3	13.5	13.9	14.5	16.3	17.3
Coal, Coke and Coke Oven Gas	1.8	2.2	2.2	2.3	2.3	2.4	2.6	2.6
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	7.6	5.4	5.4	5.5	5.6	6.0	6.4	6.6
Propane and Butanes	0.9	1.1	1.1	1.1	1.2	1.3	1.5	1.6
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Total	50.7	46.5	46.7	47.9	49.4	54.6	61.3	66.2
Non-Energy								
Asphalt	2.9	2.8	2.9	3.5	3.8	3.2	3.3	3.3
Lubes and Greases	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
Naphtha	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	5.1	4.9	4.9	4.9	5.1	5.7	6.1	7.2
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9.3	9.0	9.1	9.8	10.1	10.3	10.8	12.0
Transportation								
Motor Gasoline	48.3	47.5	42.3	42.3	43.2	44.8	47.6	49.6
Diesel Fuel Oil	16.5	16.5	17.0	17.2	17.4	18.4	19.6	20.6
Aviation Turbo - Total	6.1	4.5	6.0	6.4	6.7	7.2	7.4	7.5
Aviation Gasoline	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	1.7	1.0	1.0	1.1	1.4	1.7	1.9
Total	72.1	70.6	66.7	67.3	68.8	72.3	76.8	80.1
Total End Use								
Electricity	55.9	54.9	55.7	56.7	58.0	62.9	68.5	73.5
Oil	94.3	90.7	87.7	88.8	90.3	93.8	99.1	103.1
Natural Gas	75.1	73.1	73.1	74.0	75.6	79.2	82.5	86.5
Coal, Coke and Coke Oven Gas	1.8	2.2	2.2	2.3	2.3	2.4	2.6	2.6
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	3.1	2.4	2.4	2.5	2.5	2.6	2.7	2.7
Hog Fuel and Pulping Liquor	7.6	5.4	5.4	5.5	5.6	6.0	6.4	6.6
Other	3.3	2.9	3.0	3.0	3.1	3.5	4.0	4.3
Total	241.0	231.5	229.4	232.7	237.4	250.5	265.8	279.4

(1) 1991 is last year of actual data.

Table A4-2 (Continued)

End Use Demand by Fuel and Sector - Saskatchewan

(Petajoules)

		Current Tech Case						
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	14.3	13.9	14.0	14.0	14.1	14.7	15.5	16.7
Oil	23.3	24.6	24.5	24.5	24.4	24.3	24.7	24.6
Natural Gas	42.1	40.2	40.7	40.9	41.0	41.9	42.0	42.2
Propane and Butanes	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.3
Wood	2.3	2.0	2.0	2.0	2.0	2.0	1.9	1.9
Other	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
Total	83.4	82.3	82.9	83.1	83.1	84.5	85.7	87.0
Commercial								
Electricity	14.0	13.7	13.8	13.8	14.2	15.3	16.4	17.7
Oil	1.8	1.6	1.6	1.6	1.6	1.7	1.8	1.9
Natural Gas	18.3	16.6	16.7	16.7	17.1	17.9	18.9	19.9
Propane and Butanes	0.9	0.7	0.7	0.7	0.8	0.8	0.8	0.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	35.0	32.7	32.9	32.8	33.7	35.6	37.9	40.2
Industrial								
Electricity	16.4	19.4	19.5	20.0	20.3	21.6	22.6	23.3
Oil	8.7	8.4	8.5	8.8	9.2	10.4	11.7	13.2
Natural Gas	54.7	67.5	67.4	68.3	68.8	69.5	70.2	70.4
Coal, Coke and Coke Oven Gas	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	8.3	8.2	8.2	8.3	8.3	8.4	8.5	8.5
Propane and Butanes	1.0	1.3	1.3	1.3	1.3	1.3	1.4	1.4
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Total	92.7	108.2	108.4	110.2	111.4	115.0	118.0	120.4
Non-Energy								
Asphalt	6.0	5.7	5.8	7.0	7.4	6.3	6.3	6.4
Lubes and Greases	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7
Naphtha	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Petroleum Coke	0.9	1.0	1.0	1.0	1.0	1.1	1.2	1.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	3.2	3.3	3.3	3.4	3.5	3.8	4.2	4.7
Total	11.8	11.7	11.8	13.1	13.6	13.0	13.7	14.4
Transportation								
Motor Gasoline	57.1	57.2	55.5	56.4	58.2	60.1	63.0	65.3
Diesel Fuel Oil	18.3	17.9	17.4	17.6	17.7	18.3	19.2	19.8
Aviation Turbo - Total	2.8	1.6	2.7	2.9	3.0	3.3	3.4	3.5
Aviation Gasoline	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	0.8	0.9	1.0	1.0	1.3	1.5	1.8
Total	79.4	77.8	76.9	78.1	80.2	83.3	87.4	90.7
Total End Use								
Electricity	44.7	46.9	47.3	47.8	48.6	51.6	54.5	57.7
Oil	124.2	123.1	122.4	125.2	128.0	131.4	137.8	142.9
Natural Gas	115.1	124.4	124.8	125.9	126.9	129.4	131.2	132.7
Coal, Coke and Coke Oven Gas	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	2.3	2.0	2.0	2.0	2.0	2.0	1.9	1.9
Hog Fuel and Pulping Liquor	8.3	8.2	8.2	8.3	8.3	8.4	8.5	8.5
Other	4.0	4.3	4.4	4.5	4.5	4.9	5.2	5.5
Total	302.3	312.6	312.9	317.4	322.1	331.4	342.7	352.7

(1) 1991 is last year of actual data.

Table A4-2 (Continued)
End Use Demand by Fuel and Sector - Alberta

(Petajoules)								
	Current Tech Case							
Residential	1991(1)	1992	1993	1994	1995	2000	2005	2010
Electricity	48.6	51.3	52.1	52.9	53.9	59.9	68.1	75.8
Oil	15.6	15.2	14.7	14.4	13.8	11.9	10.8	10.5
Natural Gas	67.6	67.2	68.4	69.1	69.7	72.5	74.3	78.0
Propane and Butanes	1.8	2.6	2.7	2.7	2.7	2.9	3.1	3.4
Wood	9.9	8.8	8.9	9.0	9.1	9.6	10.3	11.2
Other	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Total	143.9	145.6	147.1	148.4	149.6	157.1	167.0	179.2
Commercial								
Electricity	43.0	45.1	45.8	47.1	49.3	55.3	62.0	69.7
Oil	11.7	13.1	12.7	12.5	12.5	12.7	13.7	14.7
Natural Gas	54.7	55.1	56.3	58.0	60.9	68.0	75.3	82.7
Propane and Butanes	3.8	2.0	2.0	2.1	2.2	2.4	2.6	2.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	113.3	115.4	117.0	119.7	124.8	138.4	153.6	169.9
Industrial								
Electricity	101.0	98.7	102.5	106.6	111.6	126.6	138.9	149.2
Oil	52.7	34.8	35.2	35.8	36.4	35.9	35.1	34.8
Natural Gas	97.7	99.4	104.1	107.9	111.9	114.1	118.0	127.6
Coal, Coke and Coke Oven Gas	5.2	7.7	8.0	8.3	8.6	9.2	9.8	10.4
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulpig Liquor	181.9	166.0	171.8	177.5	183.9	193.8	202.3	212.8
Propane and Butanes	2.1	2.8	2.9	3.0	3.1	3.3	3.5	3.8
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.6
Total	440.6	409.4	424.5	439.2	455.7	483.2	508.1	539.3
Non-Energy								
Asphalt	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Naphtha	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Petroleum Coke	3.5	3.6	3.6	3.7	3.7	4.0	4.3	4.7
Natural Gas	19.5	21.5	21.6	22.5	23.7	27.9	32.2	37.3
Oil	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Propane and Butanes	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.1
Total	41.5	43.2	43.6	46.8	49.0	51.6	56.9	63.0
Transportation								
Motor Gasoline	129.0	133.5	138.0	135.8	135.7	146.9	162.6	180.6
Diesel Fuel Oil	69.3	74.9	75.8	77.8	79.6	89.6	99.9	108.9
Aviation Turbo - Total	36.2	34.5	36.9	39.7	41.7	48.6	54.0	59.2
Aviation Gasoline	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Heavy Fuel Oil	20.0	24.1	20.9	21.1	21.2	22.3	24.2	25.9
Other	7.6	7.6	8.0	8.3	8.5	9.6	10.7	11.8
Total	263.4	275.7	280.7	283.9	288.0	318.5	352.9	387.9
Total End Use								
Electricity	192.9	195.4	200.7	206.9	215.2	242.2	269.4	295.2
Oil	357.6	352.8	357.2	362.4	367.5	392.9	426.5	461.6
Natural Gas	240.6	244.3	251.8	259.2	268.0	285.2	303.7	330.4
Coal, Coke and Coke Oven Gas	5.2	7.8	8.1	8.3	8.7	9.2	9.8	10.4
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	9.9	8.8	8.9	9.0	9.1	9.6	10.3	11.2
Hog Fuel and Pulpig Liquor	181.9	166.0	171.8	177.5	183.9	193.8	202.3	212.8
Other	14.4	14.2	14.4	14.6	14.9	15.7	16.6	17.6
Total	1002.6	989.2	1012.9	1037.9	1067.2	1148.7	1238.5	1339.3

(1) 1991 is last year of actual data.

Table A4-2 (Continued)

End Use Demand by Fuel and Sector - British Columbia and Territories

(Petajoules)

Current Tech Case								
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	48.6	51.3	52.1	52.9	53.9	59.9	68.1	75.8
Oil	15.6	15.2	14.7	14.4	13.8	11.9	10.8	10.5
Natural Gas	67.6	67.2	68.4	69.1	69.7	72.5	74.3	78.0
Propane and Butanes	1.8	2.6	2.7	2.7	2.7	2.9	3.1	3.4
Wood	9.9	8.8	8.9	9.0	9.1	9.6	10.3	11.2
Other	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Total	143.9	145.6	147.1	148.4	149.6	157.1	167.0	179.2
Commercial								
Electricity	43.0	45.1	45.8	47.1	49.3	55.3	62.0	69.7
Oil	11.7	13.1	12.7	12.5	12.5	12.7	13.7	14.7
Natural Gas	54.7	55.1	56.3	58.0	60.9	68.0	75.3	82.7
Propane and Butanes	3.8	2.0	2.0	2.1	2.2	2.4	2.6	2.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	113.3	115.4	117.0	119.7	124.8	138.4	153.6	169.9
Industrial								
Electricity	101.0	98.7	102.5	106.6	111.6	126.6	138.9	149.2
Oil	52.7	34.8	35.2	35.8	36.4	35.9	35.1	34.8
Natural Gas	97.7	99.4	104.1	107.9	111.9	114.1	118.0	127.6
Coal, Coke and Coke Oven Gas	5.2	7.7	8.0	8.3	8.6	9.2	9.8	10.4
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	181.9	166.0	171.8	177.5	183.9	193.8	202.3	212.8
Propane and Butanes	2.1	2.8	2.9	3.0	3.1	3.3	3.5	3.8
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.6
Total	440.6	409.4	424.5	439.2	455.7	483.2	508.1	539.3
Non-Energy								
Asphalt	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Naphtha	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Petroleum Coke	3.5	3.6	3.6	3.7	3.7	4.0	4.3	4.7
Natural Gas	19.5	21.5	21.6	22.5	23.7	27.9	32.2	37.3
Oil	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Propane and Butanes	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.1
Total	41.5	43.2	43.6	46.8	49.0	51.6	56.9	63.0
Transportation								
Motor Gasoline	129.0	133.5	138.0	135.8	135.7	146.9	162.6	180.6
Diesel Fuel Oil	69.3	74.9	75.8	77.8	79.6	89.6	99.9	108.9
Aviation Turbo - Total	36.2	34.5	36.9	39.7	41.7	48.6	54.0	59.2
Aviation Gasoline	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Heavy Fuel Oil	20.0	24.1	20.9	21.1	21.2	22.3	24.2	25.9
Other	7.6	7.6	8.0	8.3	8.5	9.6	10.7	11.8
Total	263.4	275.7	280.7	283.9	288.0	318.5	352.9	387.9
Total End Use								
Electricity	192.9	195.4	200.7	206.9	215.2	242.2	269.4	295.2
Oil	357.6	352.8	357.2	362.4	367.5	392.9	426.5	461.6
Natural Gas	240.6	244.3	251.8	259.2	268.0	285.2	303.7	330.4
Coal, Coke and Coke Oven Gas	5.2	7.8	8.1	8.3	8.7	9.2	9.8	10.4
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	9.9	8.8	8.9	9.0	9.1	9.6	10.3	11.2
Hog Fuel and Pulping Liquor	181.9	166.0	171.8	177.5	183.9	193.8	202.3	212.8
Other	14.4	14.2	14.4	14.6	14.9	15.7	16.6	17.6
Total	1002.6	989.2	1012.9	1037.9	1067.2	1148.7	1238.5	1339.3

(1) 1991 is last year of actual data.

Table A4-3
End Use Demand by Fuel and Sector - Canada

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	495.4	506.0	514.4	519.7	526.3	561.6	611.3	666.2
Oil	246.0	251.5	240.1	233.1	222.3	191.6	166.1	144.3
Natural Gas	555.1	578.3	589.7	598.8	613.2	659.4	699.1	744.0
Propane and Butanes	14.3	21.0	21.2	21.3	21.5	22.5	23.7	25.2
Wood	102.5	92.7	92.9	92.8	93.0	93.4	94.5	96.3
Other	4.3	4.2	4.1	4.0	3.9	3.5	3.3	3.1
Total	1417.7	1453.7	1462.4	1469.7	1480.2	1532.1	1598.1	1679.1
Commercial								
Electricity	396.9	401.8	407.5	414.4	423.5	464.4	503.6	548.4
Oil	85.7	88.0	85.7	83.5	81.8	70.9	68.5	66.7
Natural Gas	403.5	416.3	422.6	429.2	438.8	475.9	505.4	530.0
Propane and Butanes	16.9	14.3	14.3	14.4	14.6	15.1	15.5	15.9
Other	0.2	2.0	2.0	2.2	2.3	3.0	3.7	4.5
Total	903.3	922.4	932.2	943.7	960.9	1029.3	1096.7	1165.4
Industrial								
Electricity	674.0	681.9	705.7	732.1	770.3	897.1	1002.8	1094.6
Oil	284.0	259.3	267.9	274.2	285.5	316.4	345.8	371.0
Natural Gas	834.6	832.2	858.1	885.5	928.1	1046.2	1168.4	1282.4
Coal, Coke and Coke Oven Gas	193.0	185.3	193.4	203.3	215.4	248.1	278.1	302.0
Steam	24.6	16.8	17.5	18.5	19.6	22.7	25.6	27.7
Hog Fuel and Pulpig Liquor	404.7	394.6	406.7	419.3	436.8	483.5	524.4	562.3
Propane and Butanes	28.2	23.5	24.3	25.2	26.4	30.3	33.8	36.8
Natural Gas for Bitumen	63.0	65.2	63.2	69.0	74.4	136.6	173.1	200.5
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.3	0.7	1.1	3.2	5.8	8.8
Total	2506.0	2458.8	2537.1	2627.7	2757.7	3184.1	3557.7	3886.2
Non-Energy								
Asphalt	122.3	118.6	120.3	147.2	156.7	133.4	136.7	140.2
Lubes and Greases	33.9	34.0	34.2	34.5	35.0	36.8	38.8	40.8
Naphtha	9.9	10.0	10.0	10.1	10.2	10.8	11.4	12.1
Petroleum Coke	31.2	31.8	32.4	33.1	33.7	37.1	40.9	45.0
Natural Gas	156.0	154.2	158.3	164.9	171.3	213.8	241.5	271.1
Oil	124.7	129.5	128.4	131.1	134.2	149.2	163.7	179.7
Propane and Butanes	40.4	52.4	59.7	61.1	69.5	93.1	106.0	118.8
Ethane	113.9	108.2	102.8	115.5	129.2	178.5	210.3	243.7
Other Oil	16.6	16.8	17.0	17.2	17.4	18.5	19.7	21.0
Total	649.0	655.5	663.2	714.8	757.2	871.1	969.1	1072.3
Transportation								
Motor Gasoline	1137.7	1156.2	1190.9	1203.9	1232.4	1333.7	1422.4	1491.8
Diesel Fuel Oil	421.3	431.3	441.3	448.0	454.4	489.0	533.9	576.9
Aviation Turbo - Total	161.3	137.4	164.7	177.7	186.6	218.5	244.0	268.9
Aviation Gasoline	4.2	3.8	4.0	4.3	4.6	5.4	5.4	5.4
Heavy Fuel Oil	66.4	68.8	69.1	69.7	70.3	73.5	79.5	84.8
Other	34.4	34.2	37.8	39.4	41.1	49.3	57.6	65.9
Total	1825.3	1831.7	1907.8	1943.0	1989.3	2169.4	2342.7	2493.6
Total End Use								
Electricity	1569.2	1592.6	1631.0	1669.9	1724.1	1928.7	2124.8	2317.8
Oil	2745.2	2736.9	2806.1	2867.6	2925.2	3084.8	3276.6	3448.5
Natural Gas	2014.9	2048.3	2096.2	2152.5	2231.7	2541.7	2801.5	3046.0
Coal, Coke and Coke Oven Gas	195.2	187.3	195.3	205.1	217.2	249.4	279.3	303.0
Steam	24.8	16.9	17.6	18.5	19.6	22.7	25.6	27.7
Wood	102.5	92.7	92.9	92.8	93.0	93.4	94.5	96.3
Hog Fuel and Pulpig Liquor	404.7	394.6	406.7	419.3	436.8	483.5	524.4	562.3
Other	244.7	252.6	256.7	273.0	297.7	381.5	437.5	495.0
Total	7301.2	7321.9	7502.6	7698.7	7945.2	8785.8	9564.3	10296.6

(1) 1991 is last year of actual data.

Table A4-3 (Continued)
End Use Demand by Fuel and Sector - Atlantic

(Petajoules)

		High Tech Case						
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	40.5	43.1	44.3	45.2	46.1	49.8	51.8	54.0
Oil	53.0	56.4	56.2	55.5	54.9	53.4	54.0	53.6
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	1.5	2.4	2.4	2.4	2.4	2.5	2.5	2.6
Wood	23.8	20.4	20.6	20.5	20.5	20.4	20.2	19.9
Other	1.0	1.0	0.9	0.9	0.8	0.6	0.5	0.4
Total	119.8	123.3	124.4	124.5	124.8	126.7	129.1	130.6
Commercial								
Electricity	25.4	26.5	26.7	27.1	27.6	29.5	31.2	33.3
Oil	29.5	29.8	29.9	30.1	30.4	31.3	32.4	33.2
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	2.5	2.1	2.1	2.1	2.1	2.2	2.4	2.5
Other	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.5
Total	57.6	58.7	59.0	59.6	60.4	63.4	66.3	69.5
Industrial								
Electricity	48.5	47.1	48.0	49.4	50.5	60.5	65.6	68.1
Oil	44.3	43.6	43.0	42.9	43.4	44.6	45.6	45.7
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal, Coke and Coke Oven Gas	3.8	3.9	3.9	3.9	3.9	4.1	4.0	3.8
Steam	1.5	1.3	1.3	1.3	1.3	1.5	1.6	1.6
Hog Fuel and Pulping Liquor	46.6	45.7	45.8	46.4	47.1	52.3	54.8	55.5
Propane and Butanes	2.1	1.9	1.9	1.9	1.9	2.2	2.3	2.3
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Total	146.9	143.5	143.9	145.8	148.2	165.2	174.1	177.3
Non-Energy								
Asphalt	12.9	12.3	12.5	14.8	15.6	13.5	13.7	13.9
Lubes and Greases	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2
Naphtha	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	4.2	4.2	4.2	4.4	4.4	4.8	5.0	5.2
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	19.3	18.6	18.8	21.4	22.1	20.5	21.0	21.5
Transportation								
Motor Gasoline	96.0	97.3	96.9	98.6	101.3	104.8	109.3	113.3
Diesel Fuel Oil	50.2	52.2	52.8	53.5	54.1	57.4	62.1	65.5
Aviation Turbo-Total	18.7	11.4	19.4	20.9	21.9	25.2	27.6	29.9
Aviation Gasoline	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Heavy Fuel Oil	13.8	9.6	14.4	14.6	14.7	15.6	17.1	18.4
Other	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9
Total	179.2	170.9	184.1	188.2	192.6	203.7	217.0	228.2
Total End Use								
Electricity	114.4	116.7	119.0	121.6	124.2	139.7	148.7	155.4
Oil	325.0	319.1	331.7	337.8	343.1	353.0	369.2	381.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal, Coke and Coke Oven Gas	5.0	4.9	4.8	4.8	4.7	4.7	4.5	4.2
Steam	1.6	1.4	1.3	1.3	1.3	1.5	1.6	1.6
Wood	23.8	20.4	20.6	20.5	20.5	20.4	20.2	19.9
Hog Fuel and Pulping Liquor	46.6	45.7	45.8	46.4	47.1	52.3	54.8	55.5
Other	6.3	6.8	6.9	7.0	7.2	7.9	8.5	9.0
Total	522.7	515.0	530.2	539.5	548.1	579.5	607.5	627.0

(1) 1991 is last year of actual data.

Table A4-3 (Continued)
End Use Demand by Fuel and Sector - Québec

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	173.9	184.0	187.0	188.3	192.1	201.8	214.3	235.1
Oil	67.9	68.6	60.6	56.5	49.0	37.4	25.2	15.1
Natural Gas	22.6	24.6	30.3	33.4	37.4	44.9	48.4	46.9
Propane and Butanes	2.3	3.1	3.1	3.1	3.1	3.2	3.3	3.4
Wood	36.6	33.5	33.4	33.2	33.1	32.6	32.0	32.0
Other	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total	303.7	314.2	314.8	315.0	315.2	320.3	323.6	332.9
Commercial								
Electricity	108.8	110.5	111.7	112.9	114.7	122.2	130.1	139.3
Oil	20.4	21.0	20.4	19.7	19.3	16.1	12.2	8.2
Natural Gas	52.0	59.0	59.5	60.4	61.5	66.0	70.4	73.0
Propane and Butanes	2.3	1.9	1.9	1.9	2.0	2.0	2.0	2.0
Other	0.0	0.4	0.5	0.5	0.6	0.8	1.0	1.2
Total	183.6	192.8	194.1	195.4	198.0	207.0	215.7	223.6
Industrial								
Electricity	254.0	256.6	266.8	272.8	285.7	330.4	369.7	410.3
Oil	73.4	73.1	78.9	80.8	85.1	96.8	106.9	116.8
Natural Gas	131.4	131.7	131.0	132.7	137.6	140.0	151.1	163.2
Coal, Coke and Coke Oven Gas	20.0	13.6	14.0	14.3	15.0	16.8	18.6	20.5
Steam	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Hog Fuel and Pulping Liquor	68.8	74.8	77.0	78.3	81.6	89.6	97.3	105.0
Propane and Butanes	3.2	3.2	3.3	3.4	3.6	4.0	4.4	4.9
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.1	0.1	0.2	0.7	1.2	1.8
Total	550.9	553.2	571.2	582.6	608.9	678.3	749.4	822.6
Non-Energy								
Asphalt	31.5	30.6	31.0	37.2	40.1	34.5	35.5	36.4
Lubes and Greases	5.6	5.5	5.6	5.6	5.8	6.0	6.3	6.7
Naphtha	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4
Petroleum Coke	17.4	17.7	18.1	18.4	18.8	20.8	22.9	25.3
Natural Gas	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	7.8	7.0	7.2	7.3	7.9	9.1	9.7	10.5
Propane and Butanes	14.3	8.9	9.1	9.1	9.4	11.4	12.3	13.3
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	2.7	2.7	2.8	2.8	2.9	3.2	3.5	3.9
Total	81.2	73.6	74.9	81.8	86.1	86.3	91.6	97.5
Transportation								
Motor Gasoline	238.9	245.7	257.7	257.8	258.3	263.8	280.4	297.9
Diesel Fuel Oil	84.0	85.4	86.5	87.1	87.6	89.8	95.3	101.5
Aviation Turbo-Total	29.5	30.1	29.9	32.4	34.2	41.1	47.0	53.1
Aviation Gasoline	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8
Heavy Fuel Oil	19.7	21.3	20.1	20.1	20.1	20.0	20.6	20.9
Other	2.6	2.7	3.6	4.0	4.5	6.8	9.2	11.5
Total	375.3	385.9	398.5	402.1	405.5	422.4	453.3	485.7
Total End Use								
Electricity	537.9	552.3	566.8	575.4	594.1	656.4	716.7	787.7
Oil	600.5	610.7	620.6	627.8	631.0	640.8	667.7	698.4
Natural Gas	206.9	215.5	221.4	227.2	237.5	252.8	272.9	287.1
Coal, Coke and Coke Oven Gas	20.0	13.6	14.0	14.3	15.0	16.8	18.6	20.5
Steam	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Wood	36.6	33.5	33.4	33.2	33.1	32.6	32.0	32.0
Hog Fuel and Pulping Liquor	68.8	74.8	77.0	78.3	81.6	89.6	97.3	105.0
Other	23.9	19.3	20.1	20.5	21.3	25.2	28.2	31.5
Total	1494.7	1519.8	1553.5	1576.9	1613.7	1714.2	1833.6	1962.3

(1) 1991 is last year of actual data.

Table A4-3 (Continued)
End Use Demand by Fuel and Sector - Ontario

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	167.1	163.8	166.6	168.2	168.0	178.4	197.9	214.2
Oil	56.0	56.8	54.2	53.1	51.9	39.9	29.8	19.8
Natural Gas	267.3	291.8	294.4	297.4	305.1	326.0	347.7	377.0
Propane and Butanes	4.8	7.4	7.4	7.5	7.6	7.9	8.4	8.9
Wood	22.8	21.5	21.6	21.7	21.9	22.7	24.2	25.7
Other	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7
Total	518.7	542.2	545.1	548.7	555.4	575.7	608.7	646.4
Commercial								
Electricity	153.3	153.4	156.3	159.9	162.9	183.3	201.1	221.4
Oil	17.3	17.7	16.3	15.1	13.8	7.0	7.3	7.6
Natural Gas	161.7	173.5	176.3	178.8	181.3	195.9	203.0	206.9
Propane and Butanes	4.9	5.0	5.0	5.1	5.0	5.1	5.0	4.9
Other	0.0	1.2	1.3	1.3	1.4	1.9	2.3	2.8
Total	337.2	350.9	355.1	360.2	364.4	393.2	418.8	443.7
Industrial								
Electricity	154.0	155.0	161.1	173.3	187.0	223.4	253.3	276.1
Oil	51.3	47.3	49.2	51.8	54.8	61.9	69.7	75.6
Natural Gas	336.0	331.8	349.2	365.5	386.4	442.6	497.2	539.6
Coal, Coke and Coke Oven Gas	158.6	154.3	161.7	170.9	182.0	211.6	238.9	260.2
Steam	22.8	15.2	16.0	16.9	18.0	20.9	23.6	25.7
Hog Fuel and Pulping Liquor	67.8	68.6	71.9	76.0	80.9	94.1	106.3	115.7
Propane and Butanes	12.4	8.9	9.3	9.8	10.5	12.2	13.8	15.0
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.2	0.4	0.6	2.0	3.7	5.6
Total	802.8	781.1	818.7	864.6	920.2	1068.7	1206.4	1313.4
Non-Energy								
Asphalt	35.2	34.0	34.6	44.0	47.0	38.8	40.0	41.1
Lubes and Greases	15.7	15.8	15.9	16.0	16.2	17.2	18.2	19.3
Naphtha	7.2	7.2	7.3	7.3	7.4	7.8	8.3	8.8
Petroleum Coke	4.3	4.4	4.5	4.6	4.7	5.2	5.7	6.3
Natural Gas	7.3	14.0	11.7	12.4	12.9	16.2	18.6	21.4
Oil	99.8	105.5	104.0	106.6	108.9	120.8	132.3	145.3
Propane and Butanes	23.5	29.6	28.1	29.2	28.9	33.7	38.9	43.8
Ethane	9.8	9.8	9.6	10.3	10.1	11.8	13.6	15.3
Other Oil	6.2	6.3	6.3	6.4	6.5	6.8	7.1	7.5
Total	209.1	226.6	222.0	236.8	242.6	258.3	282.7	308.9
Transportation								
Motor Gasoline	422.8	426.1	442.8	458.6	481.7	554.5	583.7	592.7
Diesel Fuel Oil	121.3	125.2	131.0	133.6	136.1	150.9	168.3	185.8
Aviation Turbo - Total	47.2	39.2	48.3	52.3	55.2	66.1	75.4	84.9
Aviation Gasoline	1.0	0.9	1.0	1.0	1.1	1.4	1.5	1.5
Heavy Fuel Oil	12.9	13.7	13.7	13.9	14.2	15.5	17.6	19.7
Other	13.3	12.8	14.6	15.3	16.0	19.5	23.0	26.4
Total	618.4	617.9	651.4	674.8	704.4	807.9	869.4	911.1
Total End Use								
Electricity	475.5	473.4	485.5	503.0	519.7	587.8	655.9	716.2
Oil	898.2	900.2	929.0	964.3	999.5	1093.8	1164.9	1216.0
Natural Gas	773.1	811.0	833.0	855.6	887.5	983.9	1070.8	1150.4
Coal, Coke and Coke Oven Gas	158.6	154.3	161.7	170.9	182.0	211.6	238.9	260.2
Steam	22.9	15.2	16.0	16.9	18.0	20.9	23.6	25.7
Wood	22.8	21.5	21.6	21.7	21.9	22.7	24.2	25.7
Hog Fuel and Pulping Liquor	67.8	68.6	71.9	76.0	80.9	94.1	106.3	115.7
Other	67.5	74.3	73.5	76.4	77.3	88.9	101.4	113.4
Total	2486.2	2518.6	2592.1	2684.8	2786.8	3103.7	3386.0	3623.4

(1) 1991 is last year of actual data.

Table A4-3 (Continued)

End Use Demand by Fuel and Sector - Manitoba

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	23.6	22.6	22.9	23.2	23.4	25.1	26.7	28.1
Oil	11.4	11.0	10.8	10.4	9.9	9.1	9.3	9.4
Natural Gas	26.4	25.5	25.7	26.1	26.8	28.4	28.1	28.3
Propane and Butanes	0.8	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Wood	3.1	2.4	2.4	2.5	2.5	2.6	2.7	2.8
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	65.6	62.1	62.6	62.9	63.4	66.1	67.5	69.4
Commercial								
Electricity	13.6	12.8	13.1	13.3	13.6	14.3	15.2	16.3
Oil	2.2	1.9	1.9	1.8	1.8	1.9	2.0	2.1
Natural Gas	27.1	28.4	29.1	29.6	30.3	32.2	34.3	36.9
Propane and Butanes	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	43.4	43.3	44.4	44.9	46.0	48.7	51.8	55.6
Industrial								
Electricity	18.7	19.5	19.6	20.2	20.9	23.6	26.8	29.5
Oil	5.2	4.8	4.8	4.9	5.1	5.5	6.2	6.8
Natural Gas	16.5	13.5	13.5	13.9	14.5	16.6	19.3	21.3
Coal, Coke and Coke Oven Gas	1.8	2.2	2.2	2.3	2.3	2.5	2.6	2.7
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	7.6	5.4	5.4	5.5	5.6	6.0	6.6	6.9
Propane and Butanes	0.9	1.1	1.1	1.1	1.2	1.3	1.5	1.6
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Total	50.7	46.5	46.7	47.9	49.6	55.6	63.3	69.2
Non-Energy								
Asphalt	2.9	2.8	2.9	3.5	3.8	3.2	3.3	3.3
Lubes and Greases	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
Naphtha	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	5.1	4.9	4.9	4.9	5.1	6.2	6.6	7.8
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9.3	9.0	9.1	9.8	10.1	10.7	11.3	12.7
Transportation								
Motor Gasoline	48.3	47.5	42.3	42.3	43.2	44.8	47.6	49.6
Diesel Fuel Oil	16.5	16.5	17.0	17.2	17.4	18.4	19.6	20.6
Aviation Turbo - Total	6.1	4.5	6.0	6.4	6.7	7.2	7.4	7.5
Aviation Gasoline	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	1.7	1.0	1.0	1.1	1.4	1.7	1.9
Total	72.1	70.6	66.7	67.3	68.8	72.3	76.8	80.1
Total End Use								
Electricity	55.9	54.9	55.7	56.7	57.9	63.1	68.8	73.9
Oil	94.3	90.7	87.5	88.3	89.6	92.0	97.4	101.4
Natural Gas	75.1	73.1	73.3	74.6	76.7	83.6	88.6	94.7
Coal, Coke and Coke Oven Gas	1.8	2.2	2.2	2.3	2.3	2.5	2.6	2.7
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	3.1	2.4	2.4	2.5	2.5	2.6	2.7	2.8
Hog Fuel and Pulping Liquor	7.6	5.4	5.4	5.5	5.6	6.0	6.6	6.9
Other	3.3	2.9	3.0	3.0	3.1	3.6	4.0	4.5
Total	241.0	231.5	229.5	232.9	237.9	253.4	270.8	286.9

(1) 1991 is last year of actual data.

Table A4-3 (Continued)
End Use Demand by Fuel and Sector - Saskatchewan

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	14.3	13.9	14.0	14.0	14.1	14.9	15.8	17.3
Oil	23.3	24.6	24.5	24.4	24.3	23.1	22.9	23.3
Natural Gas	42.1	40.2	40.7	41.0	41.3	44.4	46.1	46.9
Propane and Butanes	1.0	1.2	1.2	1.2	1.2	1.2	1.3	1.3
Wood	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Other	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
Total	83.4	82.3	82.9	83.1	83.4	86.1	88.5	91.1
Commercial								
Electricity	14.0	13.7	13.8	13.8	14.2	15.3	16.4	17.7
Oil	1.8	1.6	1.6	1.6	1.5	1.6	1.7	1.8
Natural Gas	18.3	16.6	16.7	16.8	17.3	18.2	19.4	20.6
Propane and Butanes	0.9	0.7	0.7	0.7	0.8	0.8	0.8	0.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	35.0	32.7	32.9	32.9	33.8	35.8	38.3	40.8
Industrial								
Electricity	16.4	19.4	19.5	20.0	20.3	21.6	22.6	23.3
Oil	8.7	8.4	8.5	8.6	8.7	9.0	9.4	9.8
Natural Gas	54.7	67.5	67.5	68.8	69.8	74.4	78.8	83.2
Coal, Coke and Coke Oven Gas	3.6	3.5	3.5	3.5	3.6	3.6	3.7	3.8
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	8.3	8.2	8.2	8.3	8.4	8.7	9.0	9.2
Propane and Butanes	1.0	1.3	1.3	1.3	1.3	1.4	1.5	1.5
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2
Total	92.7	108.2	108.4	110.4	112.1	118.9	125.2	131.0
Non-Energy								
Asphalt	6.0	5.7	5.8	7.0	7.4	6.3	6.3	6.4
Lubes and Greases	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7
Naphtha	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Petroleum Coke	0.9	1.0	1.0	1.0	1.0	1.1	1.2	1.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	3.2	3.3	3.3	3.4	3.5	3.8	4.2	4.7
Total	11.8	11.7	11.8	13.1	13.6	13.0	13.7	14.4
Transportation								
Motor Gasoline	57.1	57.2	55.5	56.4	58.2	60.1	63.0	65.3
Diesel Fuel Oil	18.3	17.9	17.4	17.6	17.7	18.3	19.2	19.8
Aviation Turbo - Total	2.8	1.6	2.7	2.9	3.0	3.3	3.4	3.5
Aviation Gasoline	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	0.8	0.9	1.0	1.0	1.3	1.5	1.8
Total	79.4	77.8	76.9	78.1	80.2	83.3	87.4	90.7
Total End Use								
Electricity	44.7	46.9	47.3	47.8	48.6	51.8	54.9	58.2
Oil	124.2	123.1	122.4	124.8	127.2	128.7	133.6	138.1
Natural Gas	115.1	124.4	124.9	126.6	128.5	137.1	144.5	150.9
Coal, Coke and Coke Oven Gas	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.9
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Hog Fuel and Pulping Liquor	8.3	8.2	8.2	8.3	8.4	8.7	9.0	9.2
Other	4.0	4.3	4.4	4.5	4.6	5.0	5.4	5.8
Total	302.3	312.6	312.9	317.7	323.0	337.1	353.1	368.0

(1) 1991 is last year of actual data.

Table A4-3 (Continued)
End Use Demand by Fuel and Sector - Alberta

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	27.5	27.3	27.6	27.9	28.5	31.3	35.8	40.5
Oil	18.8	18.9	19.0	18.8	18.6	18.8	19.1	19.4
Natural Gas	129.1	128.9	130.2	131.5	132.3	139.5	146.3	155.4
Propane and Butanes	2.2	3.9	4.0	4.0	4.0	4.3	4.6	4.9
Wood	4.1	4.1	4.0	3.9	3.8	3.4	2.9	2.3
Other	1.0	0.8	0.8	0.8	0.8	0.7	0.6	0.5
Total	182.7	184.0	185.5	186.9	188.0	197.9	209.3	223.1
Commercial								
Electricity	38.8	39.8	40.2	40.5	41.2	44.6	47.5	50.8
Oil	2.7	2.8	2.9	2.8	2.9	3.0	3.2	3.4
Natural Gas	89.6	83.7	84.5	85.4	86.8	91.6	96.8	102.4
Propane and Butanes	2.1	2.2	2.3	2.3	2.3	2.4	2.5	2.5
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	133.2	128.6	129.8	130.9	133.1	141.6	150.0	159.1
Industrial								
Electricity	81.4	85.8	88.1	89.8	94.3	111.1	125.9	138.2
Oil	48.5	47.2	48.4	49.3	51.9	62.6	72.0	80.4
Natural Gas	198.3	188.3	192.7	196.4	206.8	251.5	291.3	327.9
Coal, Coke and Coke Oven Gas	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Steam	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Hog Fuel and Pulping Liquor	23.7	25.9	26.6	27.1	28.5	34.4	39.6	44.2
Propane and Butanes	6.4	4.4	4.5	4.6	4.8	5.8	6.7	7.4
Natural Gas for Bitumen	63.0	65.2	63.2	69.0	74.4	136.6	173.1	200.5
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	421.4	417.0	423.7	436.4	461.0	602.2	708.7	798.9
Non-Energy								
Asphalt	21.9	21.5	21.8	26.2	27.6	24.0	24.6	25.3
Lubes and Greases	4.0	4.1	4.1	4.1	4.2	4.4	4.6	4.8
Naphtha	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
Petroleum Coke	5.0	5.1	5.3	5.4	5.5	6.0	6.7	7.4
Natural Gas	123.3	113.9	120.1	125.1	129.6	161.4	181.3	201.1
Oil	11.7	11.7	11.8	12.2	12.4	13.8	15.9	17.9
Propane and Butanes	2.4	13.8	22.4	22.7	31.0	47.8	54.6	61.5
Ethane	107.3	98.4	93.2	105.2	119.0	166.7	196.8	228.3
Other Oil	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7
Total	280.0	272.7	282.9	305.1	333.6	428.5	489.0	550.8
Transportation								
Motor Gasoline	145.5	148.8	157.6	154.4	154.0	158.8	175.9	192.3
Diesel Fuel Oil	61.7	59.3	60.8	61.2	61.8	64.6	69.5	74.8
Aviation Turbo - Total	20.8	16.1	21.5	23.0	24.0	27.1	29.1	30.9
Aviation Gasoline	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	9.1	8.4	9.3	9.4	9.6	10.2	10.9	11.5
Total	237.5	232.9	249.6	248.5	249.8	261.3	285.9	309.9
Total End Use								
Electricity	147.8	153.1	156.1	158.4	164.3	187.4	209.6	229.9
Oil	345.5	340.2	357.8	362.2	367.7	388.2	425.7	461.5
Natural Gas	604.1	580.0	591.7	608.5	631.1	782.4	891.2	990.3
Coal, Coke and Coke Oven Gas	1.0	0.8	0.8	0.8	0.8	0.7	0.6	0.4
Steam	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Wood	4.1	4.1	4.0	3.9	3.8	3.4	2.9	2.3
Hog Fuel and Pulping Liquor	23.7	25.9	26.6	27.1	28.5	34.4	39.6	44.2
Other	128.6	130.9	134.5	146.9	169.3	235.1	273.2	312.8
Total	1254.9	1235.1	1271.5	1307.9	1365.6	1631.6	1843.0	2041.8

(1) 1991 is last year of actual data.

Table A4-3 (Continued)

End Use Demand by Fuel and Sector - British Columbia and Territories

(Petajoules)

	High Tech Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	48.6	51.3	52.1	52.9	54.0	60.3	68.9	77.0
Oil	15.6	15.2	14.7	14.3	13.6	9.9	5.8	3.8
Natural Gas	67.6	67.2	68.4	69.3	70.2	76.2	82.5	89.5
Propane and Butanes	1.8	2.6	2.7	2.7	2.7	2.9	3.2	3.5
Wood	9.9	8.8	8.9	9.0	9.1	9.7	10.6	11.5
Other	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4
Total	143.9	145.6	147.1	148.5	150.0	159.3	171.3	185.7
Commercial								
Electricity	43.0	45.1	45.8	47.0	49.3	55.3	62.0	69.6
Oil	11.7	13.1	12.7	12.4	12.1	10.0	9.7	10.5
Natural Gas	54.7	55.1	56.4	58.3	61.6	72.0	81.6	90.3
Propane and Butanes	3.8	2.0	2.0	2.1	2.2	2.4	2.6	2.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	113.3	115.4	117.0	119.8	125.1	139.7	155.9	173.2
Industrial								
Electricity	101.0	98.7	102.5	106.6	111.6	126.6	138.9	149.2
Oil	52.7	34.8	35.2	35.9	36.6	36.1	35.9	35.9
Natural Gas	97.7	99.4	104.1	108.2	113.0	121.0	130.7	147.2
Coal, Coke and Coke Oven Gas	5.2	7.7	8.0	8.3	8.7	9.5	10.2	11.1
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulp and Paper	181.9	166.0	171.8	177.8	184.7	198.4	210.9	225.9
Propane and Butanes	2.1	2.8	2.9	3.0	3.1	3.4	3.7	4.0
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.7
Total	440.6	409.4	424.5	439.9	457.8	495.2	530.7	574.0
Non-Energy								
Asphalt	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Naphtha	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Petroleum Coke	3.5	3.6	3.6	3.7	3.7	4.0	4.3	4.7
Natural Gas	19.5	21.5	21.6	22.5	23.7	30.0	34.9	40.8
Oil	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Propane and Butanes	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.1
Total	41.5	43.2	43.6	46.8	49.0	53.7	59.7	66.5
Transportation								
Motor Gasoline	129.0	133.5	138.0	135.8	135.7	146.9	162.6	180.6
Diesel Fuel Oil	69.3	74.9	75.8	77.8	79.6	89.6	99.9	108.9
Aviation Turbo - Total	36.2	34.5	36.9	39.7	41.7	48.6	54.0	59.2
Aviation Gasoline	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Heavy Fuel Oil	20.0	24.1	20.9	21.1	21.2	22.3	24.2	25.9
Other	7.6	7.6	8.0	8.3	8.5	9.6	10.7	11.8
Total	263.4	275.7	280.7	283.9	288.0	318.5	352.9	387.9
Total End Use								
Electricity	192.9	195.4	200.6	206.9	215.2	242.6	270.2	296.4
Oil	357.6	352.8	357.2	362.3	367.0	388.4	418.2	451.8
Natural Gas	240.6	244.3	251.9	259.9	270.3	302.0	333.5	372.6
Coal, Coke and Coke Oven Gas	5.2	7.8	8.1	8.4	8.7	9.5	10.2	11.1
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	9.9	8.8	8.9	9.0	9.1	9.7	10.6	11.5
Hog Fuel and Pulp and Paper	181.9	166.0	171.8	177.8	184.7	198.4	210.9	225.9
Other	14.4	14.2	14.4	14.6	14.9	15.8	16.9	18.0
Total	1002.6	989.2	1012.9	1039.0	1070.0	1166.4	1270.4	1387.3

(1) 1991 is last year of actual data.

Table A4-4
End Use Demand by Fuel and Sector - Canada

(Petajoules)								
	Alternative Macro Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	495.4	506.0	514.5	519.9	527.0	561.8	607.9	656.7
Oil	246.0	251.5	239.3	232.0	221.4	190.7	164.2	141.0
Natural Gas	555.1	578.3	589.8	598.9	613.4	657.7	692.1	729.7
Propane and Butanes	14.3	21.0	21.2	21.3	21.5	22.4	23.5	24.7
Wood	102.5	92.7	92.9	92.9	93.1	93.4	93.9	94.7
Other	4.3	4.2	4.1	4.0	3.9	3.5	3.3	3.0
Total	1417.7	1453.7	1461.8	1468.9	1480.4	1529.6	1584.9	1649.8
Commercial								
Electricity	396.9	401.8	407.7	414.2	419.9	456.9	490.2	529.9
Oil	85.7	88.0	85.8	83.5	81.0	69.4	66.1	63.3
Natural Gas	403.5	416.3	422.8	429.0	435.2	468.1	491.8	513.0
Propane and Butanes	16.9	14.3	14.4	14.4	14.5	14.8	15.0	15.3
Other	0.2	2.0	2.0	2.2	2.3	2.9	3.6	4.4
Total	903.3	922.4	932.7	943.3	952.9	1012.3	1066.7	1125.9
Industrial								
Electricity	674.0	681.9	712.7	750.8	799.3	972.6	1121.7	1274.5
Oil	284.0	259.3	270.6	281.2	296.1	342.2	385.0	429.4
Natural Gas	834.6	832.2	865.6	905.9	960.2	1127.0	1295.4	1476.0
Coal, Coke and Coke Oven Gas	193.0	185.3	195.2	208.3	223.8	270.0	313.1	355.1
Steam	24.6	16.8	17.7	18.9	20.4	24.7	28.8	32.6
Hog Fuel and Pulping Liquor	404.7	394.6	411.1	430.6	454.1	526.3	590.6	660.1
Propane and Butanes	28.2	23.5	24.5	25.8	27.4	32.7	37.6	42.6
Natural Gas for Bitumen	63.0	65.2	63.2	69.0	74.4	136.6	173.1	200.5
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.3	0.7	1.1	3.5	6.6	10.3
Total	2506.0	2458.8	2561.0	2691.2	2856.7	3435.6	3951.9	4481.0
Non-Energy								
Asphalt	122.3	118.6	120.3	147.2	156.7	133.3	136.6	139.8
Lubes and Greases	33.9	34.0	34.2	34.5	35.0	36.8	38.7	40.7
Naphtha	9.9	10.0	10.0	10.1	10.2	10.8	11.4	12.1
Petroleum Coke	31.2	31.8	32.4	33.1	33.7	37.1	40.9	45.0
Natural Gas	156.0	154.2	158.3	164.9	171.3	213.8	241.5	271.1
Oil	124.7	129.5	128.4	131.1	134.2	149.2	163.7	179.7
Propane and Butanes	40.4	52.4	59.7	61.1	69.5	93.1	106.0	118.8
Ethane	113.9	108.2	102.8	115.5	129.2	178.5	210.3	243.7
Other Oil	16.6	16.8	17.0	17.2	17.4	18.5	19.7	21.0
Total	649.0	655.5	663.2	714.8	757.1	871.0	968.9	1071.8
Transportation								
Motor Gasoline	1137.7	1156.2	1191.0	1204.5	1233.9	1340.8	1432.9	1500.4
Diesel Fuel Oil	421.3	431.3	441.3	448.3	455.0	493.5	543.5	594.0
Aviation Turbo - Total	161.3	137.4	164.7	178.0	187.0	219.8	245.0	270.8
Aviation Gasoline	4.2	3.8	4.0	4.3	4.6	5.4	5.4	5.4
Heavy Fuel Oil	66.4	68.8	69.1	69.7	70.5	76.2	86.2	96.8
Other	34.4	34.2	37.7	39.4	41.1	49.3	57.6	65.9
Total	1825.3	1831.7	1907.9	1944.1	1992.0	2185.0	2370.6	2533.2
Total End Use								
Electricity	1569.2	1592.6	1638.3	1688.6	1750.3	1996.9	2226.9	2469.8
Oil	2745.2	2736.9	2808.2	2874.5	2936.7	3123.7	3339.3	3539.3
Natural Gas	2014.9	2048.3	2104.1	2172.9	2260.4	2613.2	2907.9	3208.2
Coal, Coke and Coke Oven Gas	195.2	187.3	197.1	210.1	225.5	271.3	314.2	356.0
Steam	24.8	16.9	17.7	18.9	20.4	24.7	28.8	32.6
Wood	102.5	92.7	92.9	92.9	93.1	93.4	93.9	94.7
Hog Fuel and Pulping Liquor	404.7	394.6	411.1	430.6	454.1	526.3	590.6	660.1
Other	244.7	252.6	257.0	273.6	298.5	383.8	441.3	501.0
Total	7301.2	7321.9	7526.4	7762.2	8039.0	9033.4	9942.9	10861.8

(1) 1991 is last year of actual data.

Table A4-4 (Continued)
End Use Demand by Fuel and Sector - Atlantic

(Petajoules)

	Alternative Macro Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	40.5	43.1	44.3	45.2	46.1	49.5	51.1	52.7
Oil	53.0	56.4	56.2	55.5	54.9	53.1	53.0	51.7
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	1.5	2.4	2.4	2.4	2.4	2.5	2.5	2.5
Wood	23.8	20.4	20.6	20.5	20.5	20.3	19.9	19.3
Other	1.0	1.0	0.9	0.9	0.8	0.6	0.5	0.4
Total	119.8	123.3	124.4	124.5	124.7	125.9	127.0	126.6
Commercial								
Electricity	25.4	26.5	26.7	27.1	27.3	28.8	30.1	31.8
Oil	29.5	29.8	29.9	30.1	30.1	30.6	31.1	31.5
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	2.5	2.1	2.1	2.1	2.1	2.2	2.3	2.4
Other	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.5
Total	57.6	58.7	59.0	59.6	59.7	61.9	63.9	66.1
Industrial								
Electricity	48.5	47.1	48.6	50.8	52.7	66.1	74.2	81.1
Oil	44.3	43.6	43.5	44.2	45.2	48.7	51.5	54.5
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal, Coke and Coke Oven Gas	3.8	3.9	3.9	4.0	4.1	4.5	4.5	4.5
Steam	1.5	1.3	1.3	1.4	1.4	1.6	1.8	1.9
Hog Fuel and Pulping Liquor	46.6	45.7	46.4	47.7	49.1	57.2	62.0	66.1
Propane and Butanes	2.1	1.9	1.9	2.0	2.0	2.4	2.6	2.8
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Total	146.9	143.5	145.7	150.1	154.5	180.5	196.8	211.2
Non-Energy								
Asphalt	12.9	12.3	12.5	14.8	15.6	13.5	13.7	13.9
Lubes and Greases	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2
Naphtha	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	4.2	4.2	4.2	4.4	4.4	4.8	5.0	5.2
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	19.3	18.6	18.8	21.4	22.1	20.5	21.0	21.5
Transportation								
Motor Gasoline	96.0	97.3	96.9	98.7	101.5	105.6	110.2	113.9
Diesel Fuel Oil	50.2	52.2	52.8	53.5	54.2	58.3	64.2	69.4
Aviation Turbo-Total	18.7	11.4	19.4	20.9	21.9	25.3	27.7	30.1
Aviation Gasoline	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Heavy Fuel Oil	13.8	9.6	14.4	14.6	14.8	16.2	18.5	21.0
Other	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9
Total	179.2	170.9	184.1	188.3	193.0	206.1	221.6	235.5
Total End Use								
Electricity	114.4	116.7	119.6	123.0	126.0	144.4	155.4	165.6
Oil	325.0	319.1	332.3	339.1	344.9	358.4	377.5	393.8
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal, Coke and Coke Oven Gas	5.0	4.9	4.9	4.9	4.9	5.0	5.0	4.9
Steam	1.6	1.4	1.4	1.4	1.4	1.6	1.8	1.9
Wood	23.8	20.4	20.6	20.5	20.5	20.3	19.9	19.3
Hog Fuel and Pulping Liquor	46.6	45.7	46.4	47.7	49.1	57.2	62.0	66.1
Other	6.3	6.8	6.9	7.1	7.2	8.0	8.7	9.3
Total	522.7	515.0	532.0	543.8	554.1	595.0	630.3	660.9

(1) 1991 is last year of actual data.

Table A4-4 (Continued)
End Use Demand by Fuel and Sector - Québec

(Petajoules)

		Alternative Macro Case						
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	173.9	184.0	187.0	188.4	192.7	203.2	215.5	235.0
Oil	67.9	68.6	60.6	56.5	49.1	37.5	25.0	14.2
Natural Gas	22.6	24.6	30.3	33.4	37.5	45.2	48.8	47.4
Propane and Butanes	2.3	3.1	3.1	3.1	3.1	3.2	3.3	3.4
Wood	36.6	33.5	33.4	33.2	33.2	32.8	32.1	31.9
Other	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total	303.7	314.2	314.8	315.0	316.1	322.3	325.1	332.4
Commercial								
Electricity	108.8	110.5	111.7	112.8	113.8	120.7	127.8	136.1
Oil	20.4	21.0	20.4	19.7	19.1	15.8	11.8	7.5
Natural Gas	52.0	59.0	59.6	60.4	61.0	65.2	69.3	71.8
Propane and Butanes	2.3	1.9	1.9	1.9	2.0	1.9	1.9	1.9
Other	0.0	0.4	0.5	0.5	0.6	0.8	0.9	1.1
Total	183.6	192.8	194.2	195.4	196.5	204.4	211.7	218.5
Industrial								
Electricity	254.0	256.6	269.6	280.4	297.2	359.8	415.9	480.6
Oil	73.4	73.1	79.7	83.1	88.5	105.4	120.2	136.8
Natural Gas	131.4	131.7	132.4	136.4	143.1	152.4	170.0	191.2
Coal, Coke and Coke Oven Gas	20.0	13.6	14.2	14.7	15.6	18.3	20.9	24.0
Steam	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Hog Fuel and Pulping Liquor	68.8	74.8	77.8	80.5	84.8	97.5	109.5	122.9
Propane and Butanes	3.2	3.2	3.4	3.5	3.7	4.4	5.0	5.7
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.1	0.1	0.2	0.7	1.3	2.1
Total	550.9	553.2	577.3	598.9	633.3	738.7	843.0	963.6
Non-Energy								
Asphalt	31.5	30.6	31.0	37.2	40.1	34.5	35.4	36.4
Lubes and Greases	5.6	5.5	5.6	5.6	5.8	6.0	6.3	6.7
Naphtha	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4
Petroleum Coke	17.4	17.7	18.1	18.4	18.8	20.8	22.9	25.3
Natural Gas	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	7.8	7.0	7.2	7.3	7.9	9.1	9.7	10.5
Propane and Butanes	14.3	8.9	9.1	9.1	9.4	11.4	12.3	13.3
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	2.7	2.7	2.8	2.8	2.9	3.2	3.5	3.9
Total	81.2	73.6	74.9	81.8	86.1	86.3	91.6	97.4
Transportation								
Motor Gasoline	238.9	245.7	257.8	257.9	258.8	266.3	284.3	301.5
Diesel Fuel Oil	84.0	85.4	86.5	87.2	87.7	90.5	96.8	104.1
Aviation Turbo-Total	29.5	30.1	29.9	32.5	34.3	41.3	47.2	53.5
Aviation Gasoline	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8
Heavy Fuel Oil	19.7	21.3	20.1	20.1	20.1	20.8	22.4	23.8
Other	2.6	2.7	3.6	4.0	4.5	6.8	9.2	11.5
Total	375.3	385.9	398.5	402.4	406.2	426.6	460.7	495.3
Total End Use								
Electricity	537.9	552.3	569.8	583.1	605.3	685.8	761.6	854.8
Oil	600.5	610.7	621.5	630.2	635.1	653.4	687.8	726.4
Natural Gas	206.9	215.5	222.9	231.0	242.7	264.8	291.1	314.3
Coal, Coke and Coke Oven Gas	20.0	13.6	14.2	14.7	15.6	18.3	20.9	24.0
Steam	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Wood	36.6	33.5	33.4	33.2	33.2	32.8	32.1	31.9
Hog Fuel and Pulping Liquor	68.8	74.8	77.8	80.5	84.8	97.5	109.5	122.9
Other	23.9	19.3	20.1	20.6	21.4	25.6	28.9	32.6
Total	1494.7	1519.8	1559.7	1593.5	1638.2	1778.4	1932.1	2107.2

(1) 1991 is last year of actual data.

Table A4-4 (Continued)
End Use Demand by Fuel and Sector - Ontario

(Petajoules)

		Alternative Macro Case						
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	167.1	163.8	166.6	168.2	168.1	177.9	196.0	210.5
Oil	56.0	56.8	54.2	53.0	51.8	39.5	29.1	18.3
Natural Gas	267.3	291.8	294.5	297.4	305.1	325.0	344.3	370.5
Propane and Butanes	4.8	7.4	7.4	7.5	7.6	7.8	8.3	8.8
Wood	22.8	21.5	21.6	21.7	21.9	22.6	23.9	25.2
Other	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7
Total	518.7	542.2	545.1	548.7	555.2	573.6	602.3	634.1
Commercial								
Electricity	153.3	153.4	156.3	159.7	161.6	180.6	196.3	215.2
Oil	17.3	17.7	16.3	15.1	13.7	6.9	7.1	7.4
Natural Gas	161.7	173.5	176.3	178.6	179.9	193.1	198.5	202.0
Propane and Butanes	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.8
Other	0.0	1.2	1.3	1.3	1.4	1.8	2.3	2.8
Total	337.2	350.9	355.1	359.9	361.5	387.4	409.1	432.1
Industrial								
Electricity	154.0	155.0	162.6	177.5	194.2	243.2	285.2	324.9
Oil	51.3	47.3	49.7	53.0	57.0	67.4	78.5	89.0
Natural Gas	336.0	331.7	352.4	374.4	401.4	481.9	559.9	634.9
Coal, Coke and Coke Oven Gas	158.6	154.3	163.2	175.0	189.0	230.4	269.0	306.2
Steam	22.8	15.2	16.1	17.3	18.7	22.7	26.5	30.2
Hog Fuel and Pulping Liquor	67.8	68.6	72.6	77.9	84.1	102.5	119.7	136.2
Propane and Butanes	12.4	8.9	9.4	10.1	10.9	13.3	15.5	17.6
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.2	0.4	0.7	2.2	4.2	6.6
Total	802.8	781.1	826.2	885.6	955.8	1163.6	1358.5	1545.5
Non-Energy								
Asphalt	35.2	34.0	34.6	44.0	47.0	38.8	39.9	41.0
Lubes and Greases	15.7	15.8	15.9	16.0	16.2	17.2	18.2	19.2
Naphtha	7.2	7.2	7.3	7.3	7.4	7.8	8.3	8.8
Petroleum Coke	4.3	4.4	4.5	4.6	4.7	5.2	5.7	6.3
Natural Gas	7.3	14.0	11.7	12.4	12.9	16.2	18.6	21.4
Oil	99.8	105.5	104.0	106.6	108.9	120.8	132.3	145.3
Propane and Butanes	23.5	29.6	28.1	29.2	28.9	33.7	38.9	43.8
Ethane	9.8	9.8	9.6	10.3	10.1	11.8	13.6	15.3
Other Oil	6.2	6.3	6.3	6.4	6.5	6.8	7.1	7.5
Total	209.1	226.6	222.0	236.8	242.6	258.3	282.7	308.7
Transportation								
Motor Gasoline	422.8	426.1	442.8	458.7	482.0	556.4	587.1	597.0
Diesel Fuel Oil	121.3	125.2	131.0	133.7	136.3	152.1	171.2	191.5
Aviation Turbo - Total	47.2	39.2	48.3	52.4	55.3	66.5	75.7	85.6
Aviation Gasoline	1.0	0.9	1.0	1.0	1.1	1.4	1.5	1.5
Heavy Fuel Oil	12.9	13.7	13.7	13.9	14.2	16.1	19.1	22.4
Other	13.3	12.8	14.6	15.3	16.0	19.5	23.0	26.4
Total	618.4	617.9	651.4	675.1	705.0	812.0	877.5	924.5
Total End Use								
Electricity	475.5	473.4	487.0	507.1	525.7	604.4	681.2	755.1
Oil	898.2	900.2	929.5	965.8	1002.0	1102.9	1180.8	1240.9
Natural Gas	773.1	811.0	836.2	864.4	901.0	1019.3	1125.6	1234.4
Coal, Coke and Coke Oven Gas	158.6	154.3	163.2	175.0	189.0	230.4	269.0	306.2
Steam	22.9	15.2	16.1	17.3	18.7	22.7	26.6	30.2
Wood	22.8	21.5	21.6	21.7	21.9	22.6	23.9	25.2
Hog Fuel and Pulping Liquor	67.8	68.6	72.6	77.9	84.1	102.5	119.7	136.2
Other	67.5	74.3	73.6	76.6	77.7	90.0	103.3	116.7
Total	2486.2	2518.6	2599.7	2705.8	2820.0	3194.8	3530.0	3844.9

(1) 1991 is last year of actual data.

Table A4-4 (Continued)
End Use Demand by Fuel and Sector - Manitoba

(Petajoules)								
	Alternative Macro Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	23.6	22.6	22.9	23.2	23.5	25.0	26.4	27.3
Oil	11.4	11.0	10.7	10.3	9.8	9.1	9.3	9.5
Natural Gas	26.4	25.5	25.7	26.2	26.8	28.3	27.7	27.5
Propane and Butanes	0.8	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Wood	3.1	2.4	2.4	2.5	2.5	2.6	2.7	2.7
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	65.6	62.1	62.5	62.8	63.3	65.9	66.9	67.9
Commercial								
Electricity	13.6	12.8	13.1	13.3	13.4	14.0	14.7	15.4
Oil	2.2	1.9	1.9	1.8	1.8	1.9	1.9	2.0
Natural Gas	27.1	28.4	29.1	29.5	30.0	31.6	33.1	35.2
Propane and Butanes	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	43.4	43.3	44.4	44.8	45.5	47.7	50.0	52.9
Industrial								
Electricity	18.7	19.5	19.8	20.7	21.6	25.4	29.6	33.8
Oil	5.2	4.8	4.9	5.1	5.3	5.9	6.9	7.8
Natural Gas	16.5	13.5	13.7	14.3	15.0	17.9	21.3	24.5
Coal, Coke and Coke Oven Gas	1.8	2.2	2.2	2.3	2.4	2.6	2.9	3.1
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	7.6	5.4	5.4	5.6	5.8	6.5	7.3	7.9
Propane and Butanes	0.9	1.1	1.1	1.2	1.2	1.4	1.7	1.9
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2
Total	50.7	46.5	47.1	49.1	51.3	59.8	69.8	79.2
Non-Energy								
Asphalt	2.9	2.8	2.9	3.5	3.8	3.2	3.3	3.3
Lubes and Greases	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
Naphtha	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Petroleum Coke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	5.1	4.9	4.9	4.9	5.1	6.2	6.6	7.8
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9.3	9.0	9.1	9.8	10.1	10.7	11.3	12.7
Transportation								
Motor Gasoline	48.3	47.5	42.3	42.3	43.3	45.0	47.8	49.5
Diesel Fuel Oil	16.5	16.5	17.0	17.2	17.5	18.5	19.8	20.8
Aviation Turbo - Total	6.1	4.5	6.0	6.4	6.7	7.3	7.5	7.5
Aviation Gasoline	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	1.7	1.0	1.0	1.1	1.4	1.7	1.9
Total	72.1	70.6	66.7	67.4	68.9	72.7	77.2	80.2
Total End Use								
Electricity	55.9	54.9	55.9	57.2	58.5	64.5	70.7	76.6
Oil	94.3	90.7	87.4	88.4	89.8	92.7	98.4	102.5
Natural Gas	75.1	73.1	73.5	75.0	77.0	84.1	89.1	95.4
Coal, Coke and Coke Oven Gas	1.8	2.2	2.2	2.3	2.4	2.6	2.9	3.1
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	3.1	2.4	2.4	2.5	2.5	2.6	2.7	2.7
Hog Fuel and Pulping Liquor	7.6	5.4	5.4	5.6	5.8	6.5	7.3	7.9
Other	3.3	2.9	3.0	3.1	3.2	3.7	4.2	4.7
Total	241.0	231.5	229.9	233.9	239.1	256.8	275.2	292.9

(1) 1991 is last year of actual data.

Table A4-4 (Continued)
End Use Demand by Fuel and Sector - Saskatchewan

(Petajoules)

	Alternative Macro Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	14.3	13.9	14.0	14.0	14.1	14.8	15.3	16.5
Oil	23.3	24.6	24.2	24.0	24.0	23.0	23.0	23.6
Natural Gas	42.1	40.2	40.7	41.0	41.3	44.0	44.8	45.0
Propane and Butanes	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.3
Wood	2.3	2.0	2.0	2.0	2.0	2.0	2.0	1.9
Other	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
Total	83.4	82.3	82.6	82.7	83.1	85.4	86.8	88.8
Commercial								
Electricity	14.0	13.7	13.8	13.8	14.0	14.7	15.5	16.5
Oil	1.8	1.6	1.6	1.6	1.5	1.5	1.6	1.7
Natural Gas	18.3	16.6	16.8	16.8	17.1	17.6	18.3	19.4
Propane and Butanes	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	35.0	32.7	32.9	32.8	33.3	34.6	36.1	38.3
Industrial								
Electricity	16.4	19.4	19.7	20.3	20.8	22.7	24.2	25.7
Oil	8.7	8.4	8.5	8.7	8.9	9.4	10.1	10.9
Natural Gas	54.7	67.5	67.9	69.9	71.4	78.2	84.5	91.9
Coal, Coke and Coke Oven Gas	3.6	3.5	3.5	3.6	3.6	3.8	4.0	4.1
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	8.3	8.2	8.2	8.4	8.6	9.1	9.6	10.1
Propane and Butanes	1.0	1.3	1.3	1.3	1.3	1.5	1.6	1.7
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2
Total	92.7	108.2	109.0	112.2	114.6	124.9	134.1	144.7
Non-Energy								
Asphalt	6.0	5.7	5.8	7.0	7.4	6.3	6.3	6.4
Lubes and Greases	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7
Naphtha	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Petroleum Coke	0.9	1.0	1.0	1.0	1.0	1.1	1.2	1.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propane and Butanes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	3.2	3.3	3.3	3.4	3.5	3.8	4.2	4.7
Total	11.8	11.7	11.8	13.1	13.6	13.0	13.7	14.3
Transportation								
Motor Gasoline	57.1	57.2	55.5	56.4	58.3	60.4	63.4	65.7
Diesel Fuel Oil	18.3	17.9	17.4	17.6	17.7	18.3	19.2	19.8
Aviation Turbo - Total	2.8	1.6	2.7	2.9	3.0	3.3	3.4	3.5
Aviation Gasoline	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	0.8	0.9	1.0	1.0	1.3	1.5	1.8
Total	79.4	77.8	76.9	78.2	80.4	83.7	87.9	91.1
Total End Use								
Electricity	44.7	46.9	47.4	48.1	48.9	52.2	55.1	58.8
Oil	124.2	123.1	122.2	124.6	127.2	129.4	134.7	139.8
Natural Gas	115.1	124.4	125.3	127.6	129.8	139.9	147.7	156.5
Coal, Coke and Coke Oven Gas	3.7	3.7	3.7	3.8	3.8	4.0	4.1	4.2
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	2.3	2.0	2.0	2.0	2.0	2.0	2.0	1.9
Hog Fuel and Pulping Liquor	8.3	8.2	8.2	8.4	8.6	9.1	9.6	10.1
Other	4.0	4.3	4.4	4.5	4.6	5.0	5.4	5.9
Total	302.3	312.6	313.2	319.1	324.9	341.6	358.5	377.3

(1) 1991 is last year of actual data.

Table A4-4 (Continued)
End Use Demand by Fuel and Sector - Alberta

(Petajoules)								
	Alternative Macro Case							
Residential	1991(1)	1992	1993	1994	1995	2000	2005	2010
Electricity	27.5	27.3	27.6	27.9	28.5	31.2	35.3	39.4
Oil	18.8	18.9	18.7	18.5	18.4	18.8	19.3	19.6
Natural Gas	129.1	128.9	130.2	131.6	132.4	139.1	144.5	151.4
Propane and Butanes	2.2	3.9	4.0	4.0	4.0	4.3	4.5	4.8
Wood	4.1	4.1	4.0	3.9	3.8	3.3	2.8	2.3
Other	1.0	0.8	0.8	0.8	0.8	0.7	0.6	0.5
Total	182.7	184.0	185.2	186.7	187.9	197.5	207.1	217.9
Commercial								
Electricity	38.8	39.8	40.2	40.5	40.9	43.8	45.9	48.4
Oil	2.7	2.8	2.9	2.8	2.8	3.0	3.1	3.3
Natural Gas	89.6	83.7	84.6	85.4	86.0	89.9	93.6	98.1
Propane and Butanes	2.1	2.2	2.3	2.3	2.3	2.3	2.4	2.4
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	133.2	128.6	129.9	130.9	132.0	138.9	144.9	152.2
Industrial								
Electricity	81.4	85.8	88.6	91.3	96.5	116.7	134.3	151.1
Oil	48.5	47.2	48.7	50.2	53.1	65.8	76.8	87.9
Natural Gas	198.3	188.3	194.0	199.6	211.6	264.0	310.8	358.5
Coal, Coke and Coke Oven Gas	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Steam	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3
Hog Fuel and Pulping Liquor	23.7	25.9	26.7	27.5	29.2	36.1	42.2	48.4
Propane and Butanes	6.4	4.4	4.5	4.7	4.9	6.1	7.1	8.1
Natural Gas for Bitumen	63.0	65.2	63.2	69.0	74.4	136.6	173.1	200.5
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	421.4	417.0	426.0	442.5	469.9	625.4	744.7	854.7
Non-Energy								
Asphalt	21.9	21.5	21.8	26.2	27.6	24.0	24.6	25.2
Lubes and Greases	4.0	4.1	4.1	4.1	4.2	4.4	4.6	4.8
Naphtha	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
Petroleum Coke	5.0	5.1	5.3	5.4	5.5	6.0	6.7	7.4
Natural Gas	123.3	113.9	120.1	125.1	129.6	161.4	181.3	201.1
Oil	11.7	11.7	11.8	12.2	12.4	13.8	15.9	17.9
Propane and Butanes	2.4	13.8	22.4	22.7	31.0	47.8	54.6	61.5
Ethane	107.3	98.4	93.2	105.2	119.0	166.7	196.8	228.3
Other Oil	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7
Total	280.0	272.7	282.9	305.1	333.6	428.5	489.0	550.7
Transportation								
Motor Gasoline	145.5	148.8	157.6	154.5	154.1	159.4	176.1	191.0
Diesel Fuel Oil	61.7	59.3	60.8	61.2	61.9	65.0	70.1	75.6
Aviation Turbo - Total	20.8	16.1	21.5	23.1	24.1	27.3	29.3	31.1
Aviation Gasoline	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Heavy Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	9.1	8.4	9.3	9.4	9.6	10.2	10.9	11.5
Total	237.5	232.9	249.6	248.6	250.1	262.3	286.8	309.6
Total End Use								
Electricity	147.8	153.1	156.7	159.9	166.1	192.0	216.0	239.3
Oil	345.5	340.2	357.8	362.8	368.8	392.2	431.4	468.7
Natural Gas	604.1	580.0	593.0	611.8	635.2	792.8	905.8	1012.6
Coal, Coke and Coke Oven Gas	1.0	0.8	0.8	0.8	0.8	0.7	0.6	0.4
Steam	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3
Wood	4.1	4.1	4.0	3.9	3.8	3.3	2.8	2.3
Hog Fuel and Pulping Liquor	23.7	25.9	26.7	27.5	29.2	36.1	42.2	48.4
Other	128.6	130.9	134.5	147.0	169.4	235.4	273.5	313.2
Total	1254.9	1235.1	1273.7	1313.9	1373.5	1652.7	1872.6	2085.2

(1) 1991 is last year of actual data.

Table A4-4 (Continued)

End Use Demand by Fuel and Sector - British Columbia and Territories

(Petajoules)

	Alternative Macro Case							
	1991(1)	1992	1993	1994	1995	2000	2005	2010
Residential								
Electricity	48.6	51.3	52.1	52.9	54.0	60.2	68.3	75.3
Oil	15.6	15.2	14.7	14.3	13.5	9.8	5.6	3.9
Natural Gas	67.6	67.2	68.4	69.3	70.3	76.1	81.9	87.8
Propane and Butanes	1.8	2.6	2.7	2.7	2.7	2.9	3.2	3.4
Wood	9.9	8.8	8.9	9.0	9.1	9.7	10.5	11.3
Other	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Total	143.9	145.6	147.1	148.6	150.1	159.0	169.8	182.1
Commercial								
Electricity	43.0	45.1	45.8	47.0	48.9	54.3	59.9	66.4
Oil	11.7	13.1	12.8	12.4	12.0	9.8	9.4	10.0
Natural Gas	54.7	55.1	56.5	58.3	61.2	70.8	79.1	86.6
Propane and Butanes	3.8	2.0	2.0	2.1	2.2	2.3	2.5	2.7
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	113.3	115.4	117.1	119.8	124.3	137.2	150.9	165.7
Industrial								
Electricity	101.0	98.7	103.7	109.8	116.3	138.7	158.3	177.4
Oil	52.7	34.8	35.6	37.0	38.2	39.5	41.0	42.6
Natural Gas	97.7	99.4	105.3	111.3	117.7	132.6	148.9	175.0
Coal, Coke and Coke Oven Gas	5.2	7.7	8.1	8.6	9.0	10.4	11.6	13.2
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hog Fuel and Pulping Liquor	181.9	166.0	173.9	183.0	192.6	217.4	240.4	268.4
Propane and Butanes	2.1	2.8	2.9	3.1	3.3	3.7	4.2	4.8
Natural Gas for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal for Bitumen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.8
Total	440.6	409.4	429.6	452.8	477.2	542.6	604.9	682.1
Non-Energy								
Asphalt	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Naphtha	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Petroleum Coke	3.5	3.6	3.6	3.7	3.7	4.0	4.3	4.7
Natural Gas	19.5	21.5	21.6	22.5	23.7	30.0	34.9	40.8
Oil	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Propane and Butanes	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Oil	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.1
Total	41.5	43.2	43.6	46.8	49.0	53.7	59.6	66.5
Transportation								
Motor Gasoline	129.0	133.5	138.0	135.9	135.9	147.8	164.1	181.9
Diesel Fuel Oil	69.3	74.9	75.8	77.8	79.8	90.7	102.2	112.7
Aviation Turbo - Total	36.2	34.5	36.9	39.8	41.8	48.9	54.2	59.6
Aviation Gasoline	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Heavy Fuel Oil	20.0	24.1	20.9	21.1	21.3	23.1	26.2	29.6
Other	7.6	7.6	8.0	8.3	8.5	9.6	10.7	11.8
Total	263.4	275.7	280.7	284.1	288.6	321.6	358.9	397.0
Total End Use								
Electricity	192.9	195.4	201.9	210.1	219.6	253.7	287.0	319.6
Oil	357.6	352.8	357.6	363.6	369.0	394.6	428.7	467.2
Natural Gas	240.6	244.3	253.2	263.1	274.7	312.3	348.6	395.0
Coal, Coke and Coke Oven Gas	5.2	7.8	8.2	8.6	9.1	10.4	11.6	13.2
Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wood	9.9	8.8	8.9	9.0	9.1	9.7	10.5	11.3
Hog Fuel and Pulping Liquor	181.9	166.0	173.9	183.0	192.6	217.4	240.4	268.4
Other	14.4	14.2	14.5	14.7	15.1	16.2	17.3	18.7
Total	1002.6	989.2	1018.2	1052.1	1089.1	1214.2	1344.1	1493.4

(1) 1991 is last year of actual data.

Table A4-5
End Use Demand By Fuel - Atlantic Provinces

(Petajoules)

	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Newfoundland									
Electricity	34.2	34.6	34.1	34.9	35.8	36.7	41.8	44.8	46.6
Oil Products	82.9	77.9	75.2	78.6	79.4	79.4	88.7	94.1	93.9
Other	10.9	8.9	8.1	8.1	8.1	8.1	8.4	8.3	8.0
Total	128.0	121.4	117.4	121.6	123.3	124.2	138.9	147.2	148.5
Prince Edward Island									
Electricity	2.4	2.5	2.6	2.7	2.7	2.8	3.1	3.6	4.1
Oil Products	17.8	17.6	17.5	18.3	18.7	19.0	18.9	19.6	20.4
Other	5.7	5.6	5.6	5.5	5.5	5.6	5.8	6.3	6.4
Total	25.9	25.7	25.7	26.5	26.9	27.4	27.8	29.5	30.9
Nova Scotia									
Electricity	31.5	31.5	33.0	33.5	34.2	34.8	38.7	41.0	43.2
Oil Products	134.2	123.7	122.2	127.3	129.9	132.6	132.1	139.1	146.0
Other	17.2	18.5	17.7	18.1	18.2	18.6	18.6	19.8	20.3
Total	182.9	173.7	172.9	178.9	182.3	186.0	189.4	199.9	209.5
New Brunswick									
Electricity	44.6	45.9	47.0	48.0	49.0	49.9	56.0	59.3	61.6
Oil Products	105.5	105.9	104.2	107.4	109.8	112.1	113.3	116.4	121.1
Other	51.0	50.0	47.8	47.7	48.1	48.6	54.0	55.2	55.5
Total	201.1	201.8	199.0	203.1	206.9	210.6	223.3	230.9	238.2

(1) 1991 is last year of actual data.

Note: Current Tech Case and High Tech Case in the Atlantic provinces are the same because of the absence of Natural Gas.

Table A4-6
End Use Demand By Fuel - Atlantic Provinces

(Petajoules)

	Alternative Macro Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Newfoundland									
Electricity	34.2	34.6	34.1	35.1	36.3	37.4	43.6	47.5	50.8
Oil Products	82.9	77.9	75.2	78.8	79.9	80.1	91.0	97.6	98.9
Other	10.9	8.9	8.1	8.2	8.2	8.2	8.6	8.7	8.3
Total	128.0	121.4	117.4	122.1	124.4	125.7	143.2	153.8	158.0
Prince Edward Island									
Electricity	2.4	2.5	2.6	2.7	2.7	2.8	3.2	3.7	4.2
Oil Products	17.8	17.6	17.5	18.3	18.7	19.0	19.0	19.8	20.5
Other	5.7	5.6	5.6	5.5	5.7	5.7	6.1	6.7	7.3
Total	25.9	25.7	25.7	26.5	27.1	27.5	28.3	30.2	32.0
Nova Scotia									
Electricity	31.5	31.5	33.0	33.7	34.5	35.1	39.6	42.2	45.0
Oil Products	134.2	123.7	122.2	127.4	130.2	132.9	133.2	140.9	148.9
Other	17.2	18.5	17.7	18.2	18.4	19.0	19.4	20.9	21.9
Total	182.9	173.7	172.9	179.3	183.1	187.0	192.2	204.0	215.8
New Brunswick									
Electricity	44.6	45.9	47.0	48.2	49.5	50.7	58.0	62.0	65.6
Oil Products	105.5	105.9	104.2	107.7	110.3	112.8	115.3	119.2	125.4
Other	51.0	50.0	47.8	48.2	49.4	50.3	58.0	61.1	64.0
Total	201.1	201.8	199.0	204.1	209.2	213.8	231.3	242.3	255.0

(1) 1991 is last year of actual data.

Note: Current Tech Case and High Tech Case in the Atlantic provinces are the same because of the absence of Natural Gas.

Table A4-7

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Canada

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	1449.9	1417.7	1453.7	1462.4	1468.4	1475.5	1512.8	1562.7	1625.4
Commercial	892.8	903.3	922.4	932.1	942.9	959.1	1022.0	1084.6	1147.5
Industrial	2540.6	2506.0	2458.8	2537.0	2623.5	2743.5	3081.3	3340.5	3571.0
Transportation - Road	1513.4	1465.3	1488.6	1532.0	1550.6	1584.9	1720.0	1851.5	1962.1
- Air, Rail, Marine	382.0	360.0	343.1	375.8	392.3	404.4	449.4	491.2	531.6
- Total	1895.4	1825.3	1831.7	1907.8	1943.0	1989.3	2169.4	2342.7	2493.6
Non-Energy [a]	632.6	649.0	655.5	663.2	714.8	757.2	846.5	935.8	1034.2
Total End Use	7411.3	7301.2	7321.9	7502.5	7692.4	7924.4	8631.8	9266.3	9871.8
Own Use	549.8	577.1	575.1	581.0	592.0	609.7	680.6	748.9	766.8
Electricity and Steam Generation [b][d]	2952.2	3093.7	3094.9	3145.7	3315.3	3439.7	3874.5	4263.3	4603.2
Other Conversions	157.8	155.7	151.5	158.4	166.4	175.7	199.5	220.6	233.6
Total Own Use and Conversions	3659.8	3826.4	3821.5	3885.1	4073.6	4225.2	4754.7	5232.8	5603.7
Less Electricity, Steam, Coke and Coke Oven Gas	1826.1	1891.8	1880.9	1919.7	1970.0	2040.4	2279.4	2508.8	2729.2
Primary Energy Demand	9237.4	9235.9	9262.5	9467.8	9796.0	10109.2	11107.0	11990.2	12746.3
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	823.1	958.2	926.6	1085.0	1148.1	1156.5	1237.0	1262.6	1230.7
Hydro [b]	1018.8	1041.4	1045.4	1059.7	1087.0	1112.2	1192.7	1272.9	1394.7
Oil	3268.7	3071.8	3093.1	3150.3	3200.1	3309.4	3590.7	3899.6	4137.4
Natural Gas	2299.7	2294.9	2367.2	2426.3	2509.5	2555.6	2837.3	2952.3	2917.8
NGL-Gas Plant	131.9	155.5	154.1	162.3	164.1	175.3	204.7	226.8	249.9
Ethane	113.7	113.9	108.2	102.8	115.5	129.1	172.4	200.8	233.7
Coal	1050.6	1060.1	1051.2	950.6	1024.3	1102.5	1246.6	1513.6	1886.7
Renewables and Others	530.8	538.0	517.6	531.6	547.9	569.2	626.2	662.4	696.0

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions Atlantic

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	122.4	119.8	123.3	124.4	124.5	124.8	126.7	129.1	130.6
Commercial	59.7	57.6	58.7	59.0	59.6	60.4	63.4	66.3	69.5
Industrial	149.8	146.9	143.5	143.9	145.8	148.2	165.2	174.1	177.3
Transportation - Road	128.5	124.5	126.7	126.9	129.0	131.9	137.0	143.5	148.3
- Air, Rail, Marine	56.2	54.6	44.1	57.2	59.2	60.7	66.8	73.5	79.9
- Total	184.6	179.2	170.9	184.1	188.2	192.6	203.7	217.0	228.2
Non-Energy [a]	21.5	19.3	18.6	18.8	21.4	22.1	20.5	21.0	21.5
Total End Use	538.0	522.7	515.0	530.2	539.5	548.1	579.5	607.5	627.0
Own Use	53.1	55.4	55.1	54.1	51.8	54.5	57.8	62.3	62.7
Electricity and Steam Generation [b][d]	356.7	361.2	374.9	379.5	404.2	408.9	462.4	487.2	508.4
Other Conversions	0.0	0.0	2.1	2.0	2.0	2.0	2.0	1.8	1.5
Total Own Use and Conversions	409.8	416.6	432.1	435.7	458.0	465.4	522.2	551.3	572.6
Less Electricity, Steam, Coke and Coke Oven Gas	129.6	129.5	130.5	132.0	134.8	137.5	154.4	164.0	171.0
Primary Energy Demand	818.2	809.8	816.6	833.9	862.7	876.0	947.3	994.8	1028.6
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	40.7	42.4	42.0	46.8	50.3	25.5	51.1	51.1	51.1
Hydro [b]	139.8	141.8	139.4	155.0	159.1	159.2	160.1	161.5	161.7
Oil	494.2	456.7	468.1	466.3	435.6	462.7	486.1	526.8	528.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NGL-Gas Plant	1.5	15.6	9.8	9.8	9.9	10.1	10.9	11.6	12.2
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	68.1	78.1	86.8	85.8	136.3	144.0	153.7	155.9	186.8
Renewables and Others	73.9	75.1	71.4	71.1	72.0	75.0	86.1	88.6	89.1

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Québec

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	316.0	303.7	314.2	314.8	315.0	315.1	319.4	321.9	330.3
Commercial	189.6	183.6	192.8	194.1	195.3	197.8	206.1	214.2	221.4
Industrial	566.0	550.9	553.2	571.2	582.1	607.5	670.0	733.5	800.2
Transportation - Road	326.5	311.8	319.6	333.3	334.2	335.5	344.9	368.7	394.2
- Air, Rail, Marine	70.3	63.5	66.3	65.2	68.0	70.0	77.5	84.7	91.6
- Total	396.8	375.3	385.9	398.5	402.1	405.5	422.4	453.3	485.7
Non-Energy [a]	73.4	81.2	73.6	74.9	81.8	86.1	85.7	91.1	96.9
Total End Use	1541.9	1494.7	1519.8	1553.5	1576.3	1612.0	1703.6	1814.0	1934.6
Own Use	92.2	94.1	92.4	100.6	102.3	105.0	112.5	120.2	128.3
Electricity and Steam Generation [b][d]	524.2	531.2	547.9	555.4	558.0	580.4	651.9	717.1	794.2
Other Conversions	0.0	0.4	4.2	4.3	4.4	4.6	5.1	5.7	6.2
Total Own Use and Conversions	616.4	625.7	644.4	660.4	664.7	690.0	769.6	843.0	928.7
Less Electricity, Steam, Coke and Coke Oven Gas	574.2	588.0	597.2	619.5	629.0	649.4	717.4	783.3	860.9
Primary Energy Demand	1584.1	1532.5	1567.1	1594.3	1612.0	1652.6	1755.9	1873.7	2002.5
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	49.2	47.3	57.8	60.4	53.8	53.8	53.8	53.8	53.8
Hydro [b]	455.5	477.4	476.4	488.9	495.1	512.2	570.5	635.7	712.7
Oil	706.6	644.9	663.1	668.4	685.1	694.6	715.8	780.0	821.7
Natural Gas	226.4	221.2	231.0	234.6	234.5	243.9	255.9	233.9	231.7
NGL-Gas Plant	18.4	21.9	16.2	16.7	16.9	17.6	20.6	22.5	25.3
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	20.3	13.6	13.3	13.7	14.0	14.6	16.2	17.9	19.6
Renewables and Others	107.7	105.8	109.2	111.4	112.6	115.8	123.0	129.9	137.7

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Ontario

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	527.4	518.7	542.2	545.1	548.1	552.8	567.6	593.9	623.5
Commercial	315.0	337.2	350.9	355.1	359.9	363.8	390.5	414.6	437.5
Industrial	804.1	802.8	781.1	818.6	862.7	914.8	1035.6	1144.1	1224.9
Transportation - Road	546.1	526.3	533.8	554.6	572.8	598.5	687.0	734.3	761.6
- Air, Rail, Marine	96.0	92.2	84.1	96.8	102.0	105.8	120.9	135.1	149.5
- Total	642.2	618.4	617.9	651.4	674.8	704.4	807.9	869.4	911.1
Non-Energy [a]	205.8	209.1	226.6	222.0	236.8	242.6	255.6	278.9	304.7
Total End Use	2494.5	2486.2	2518.6	2592.1	2682.1	2778.2	3057.1	3300.9	3501.7
Own Use	179.8	195.1	188.2	175.8	181.7	188.4	213.3	233.6	243.2
Electricity and Steam Generation [b][d]	1179.2	1296.0	1240.9	1265.7	1359.8	1424.1	1615.0	1813.1	1955.1
Other Conversions	145.0	143.0	131.1	137.4	144.9	153.8	174.6	193.2	207.1
Total Own Use and Conversions	1504.0	1634.1	1560.3	1578.9	1686.5	1766.3	2003.0	2239.9	2405.5
Less Electricity, Steam, Coke and Coke Oven Gas	654.3	680.6	657.0	658.8	685.7	715.2	806.3	897.0	973.8
Primary Energy Demand	3359.7	3443.2	3421.9	3512.2	3682.9	3829.2	4253.8	4643.8	4933.3
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	733.2	868.4	826.8	977.8	1044.0	1077.2	1132.1	1157.7	1125.8
Hydro [b]	143.9	134.6	142.2	144.0	143.0	143.0	144.0	144.0	157.5
Oil	1039.8	986.5	988.6	1021.0	1069.5	1126.9	1309.4	1427.5	1539.0
Natural Gas	826.2	849.1	906.0	930.0	949.8	963.3	1007.3	1062.9	1084.4
NGL-Gas Plant	59.5	68.8	73.1	71.5	73.1	73.4	79.3	88.6	97.3
Ethane	15.5	12.0	9.8	9.6	10.3	10.1	11.4	12.9	14.7
Coal	437.3	426.4	380.2	259.4	290.0	327.0	446.5	613.2	766.9
Renewables and Others	88.8	96.6	95.2	98.9	103.1	108.3	123.9	136.9	147.6

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Manitoba

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	68.2	65.6	62.1	62.6	62.9	63.2	65.2	66.0	67.1
Commercial	43.3	43.4	43.3	44.4	44.8	45.8	48.0	50.8	54.0
Industrial	53.0	50.7	46.5	46.7	47.9	49.4	54.6	61.3	66.2
Transportation - Road	59.7	58.9	58.8	53.0	53.1	54.2	56.8	60.9	64.0
- Air, Rail, Marine	15.1	13.2	11.8	13.7	14.3	14.6	15.5	15.9	16.1
- Total	74.9	72.1	70.6	66.7	67.3	68.8	72.3	76.8	80.1
Non-Energy [a]	9.0	9.3	9.0	9.1	9.8	10.1	10.3	10.8	12.0
Total End Use	248.5	241.0	231.5	229.4	232.7	237.4	250.5	265.8	279.4
Own Use	33.6	39.2	35.6	35.9	36.5	37.2	40.2	43.3	44.8
Electricity and Steam Generation [b][d]	69.0	72.6	77.0	73.6	76.5	78.3	84.6	89.4	91.4
Other Conversions	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Own Use and Conversions	102.6	112.1	112.6	109.5	112.9	115.6	124.8	132.6	136.1
Less Electricity, Steam, Coke and Coke Oven Gas	61.6	66.2	66.2	67.2	68.4	69.9	75.9	82.6	88.5
Primary Energy Demand	288.1	287.0	278.0	271.7	277.2	283.0	299.5	315.8	327.0
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	64.3	68.8	72.7	70.2	71.2	73.0	79.3	84.1	90.7
Oil	98.2	94.8	91.0	88.0	89.1	90.5	94.1	99.4	103.3
Natural Gas	104.6	104.0	97.4	97.5	98.8	101.0	106.5	111.7	116.2
NGL-Gas Plant	3.7	3.0	2.6	2.7	2.8	2.9	3.2	3.6	3.9
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	6.0	4.7	5.9	5.0	6.9	7.0	7.1	7.3	2.6
Renewables and Others	11.5	11.4	8.3	8.3	8.5	8.7	9.2	9.8	10.1

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions Saskatchewan

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	86.0	83.4	82.3	82.9	83.1	83.1	84.5	85.7	87.0
Commercial	35.7	35.0	32.7	32.9	32.8	33.7	35.6	37.9	40.2
Industrial	77.2	92.7	108.2	108.4	110.2	111.4	115.0	118.0	120.4
Transportation - Road	66.8	72.4	71.2	69.8	70.8	72.7	75.3	79.4	82.5
- Air, Rail, Marine	11.1	6.9	6.5	7.1	7.3	7.5	7.9	8.1	8.2
- Total	77.9	79.4	77.8	76.9	78.1	80.2	83.3	87.4	90.7
Non-Energy [a]	12.8	11.8	11.7	11.8	13.1	13.6	13.0	13.7	14.4
Total End Use	289.6	302.3	312.6	312.9	317.4	322.1	331.4	342.7	352.7
Own Use	48.5	52.0	58.0	62.4	63.6	64.8	77.5	90.6	83.0
Electricity and Steam Generation [b][d]	132.2	132.2	144.1	145.6	151.7	152.5	162.4	174.7	184.7
Other Conversions	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Own Use and Conversions	180.7	184.5	202.1	208.1	215.2	217.4	239.9	265.3	267.7
Less Electricity, Steam, Coke and Coke Oven Gas	46.2	52.5	52.5	55.0	55.6	56.5	60.0	63.4	67.0
Primary Energy Demand	421.6	433.4	462.2	465.9	477.0	482.9	511.3	544.6	553.4
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	15.2	15.2	11.0	14.6	13.1	13.1	13.1	13.1	13.1
Oil	132.9	125.7	126.5	125.7	128.7	131.5	135.1	141.5	146.7
Natural Gas	144.1	162.3	184.0	185.4	187.9	192.9	212.1	230.6	221.2
NGL-Gas Plant	3.7	2.5	1.8	2.0	1.9	1.8	2.0	2.3	2.6
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	114.1	115.2	127.1	126.5	133.6	131.6	136.9	144.9	157.7
Renewables and Others	11.6	12.2	11.8	11.8	11.9	12.0	12.1	12.2	12.2

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Alberta

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	188.0	182.7	184.0	185.5	186.5	186.9	192.2	199.0	207.8
Commercial	141.3	133.2	128.6	129.8	130.7	132.7	140.0	147.3	155.1
Industrial	439.6	421.4	417.0	423.7	435.6	456.5	557.7	601.3	642.7
Transportation - Road	214.0	196.8	196.7	206.5	203.4	203.3	210.3	231.8	253.1
- Air, Rail, Marine	47.7	40.7	36.2	43.1	45.1	46.5	51.0	54.1	56.9
- Total	261.7	237.5	232.9	249.6	248.5	249.8	261.3	285.9	309.9
Non-Energy [a]	267.6	280.0	272.7	282.9	305.1	333.6	409.7	463.4	521.7
Total End Use	1298.1	1254.9	1235.1	1271.5	1306.5	1359.5	1560.9	1697.0	1837.2
Own Use	78.7	76.8	77.9	81.4	83.0	84.7	95.5	105.1	107.2
Electricity and Steam Generation [b][d]	458.9	474.7	495.7	505.7	508.4	529.4	599.5	652.5	707.2
Other Conversions	12.8	11.4	12.6	13.0	13.3	13.6	15.9	18.0	16.7
Total Own Use and Conversions	550.5	562.9	586.2	600.1	604.8	627.7	710.9	775.6	831.1
Less Electricity, Steam, Coke and Coke Oven Gas	148.8	161.9	165.5	169.1	171.6	177.8	202.3	225.9	247.2
Primary Energy Demand	1696.2	1650.4	1655.8	1702.5	1739.8	1809.4	2069.5	2246.6	2421.0
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	7.4	7.3	5.7	6.6	6.6	6.6	6.6	6.6	6.6
Oil	406.5	376.7	373.2	394.1	400.6	407.5	427.2	465.0	500.5
Natural Gas	729.4	690.5	682.9	683.0	718.6	722.1	890.8	903.9	822.2
NGL-Gas Plant	33.7	29.7	39.9	47.7	46.6	54.8	73.1	81.8	91.2
Ethane	98.2	101.9	98.4	93.2	105.2	119.0	161.0	187.8	219.0
Coal	397.5	413.5	420.6	442.3	424.9	459.0	465.7	552.7	729.9
Renewables and Others	23.5	30.6	35.2	35.6	37.2	40.4	45.1	48.8	51.5

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-7 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
British Columbia and Territories

(Petajoules)	Current Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	141.8	143.9	145.6	147.1	148.4	149.6	157.1	167.0	179.2
Commercial	108.2	113.3	115.4	117.0	119.7	124.8	138.4	153.6	169.9
Industrial	450.7	440.6	409.4	424.5	439.2	455.7	483.2	508.1	539.3
Transportation - Road	171.8	174.5	181.8	188.0	187.4	188.8	208.7	233.1	258.4
- Air, Rail, Marine	85.5	88.9	93.9	92.7	96.5	99.3	109.8	119.8	129.5
- Total	257.3	263.4	275.7	280.7	283.9	288.0	318.5	352.9	387.9
Non-Energy [a]	42.5	41.5	43.2	43.6	46.8	49.0	51.6	56.9	63.0
Total End Use	1000.5	1002.6	989.2	1012.9	1037.9	1067.2	1148.7	1238.5	1339.3
Own Use	63.8	64.5	67.9	70.8	73.1	75.1	83.8	93.7	97.6
Electricity and Steam Generation [b][d]	232.1	225.8	214.3	220.2	256.7	266.1	298.7	329.4	362.2
Other Conversions	0.0	0.3	1.5	1.6	1.6	1.7	1.8	1.9	2.1
Total Own Use and Conversions	295.9	290.5	283.8	292.6	331.4	342.9	384.3	425.1	461.9
Less Electricity, Steam, Coke and Coke Oven Gas	211.3	213.1	212.0	218.2	225.0	233.9	263.2	292.7	320.7
Primary Energy Demand	1085.1	1079.7	1061.0	1087.3	1144.4	1176.1	1269.8	1370.9	1480.5
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	192.7	196.2	198.0	180.4	198.9	205.1	219.2	228.0	252.4
Oil	390.6	386.4	382.6	386.8	391.6	395.7	423.0	459.3	497.7
Natural Gas	269.1	267.8	265.9	295.8	319.9	332.4	364.8	409.3	442.1
NGL-Gas Plant	11.5	14.1	10.7	11.9	13.1	14.7	15.6	16.5	17.4
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	7.3	8.6	17.3	17.9	18.5	19.2	20.5	21.7	23.2
Renewables and Others	213.8	206.3	186.5	194.4	202.5	209.0	226.7	236.2	247.7

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions Canada

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	1449.9	1417.7	1453.7	1462.4	1469.7	1480.2	1532.1	1598.1	1679.1
Commercial	892.8	903.3	922.4	932.2	943.7	960.9	1029.3	1096.7	1165.4
Industrial	2540.6	2506.0	2458.8	2537.1	2627.7	2757.7	3184.1	3557.7	3886.2
Transportation - Road	1513.4	1465.3	1488.6	1532.0	1550.6	1584.9	1720.0	1851.5	1962.1
- Air, Rail, Marine	382.0	360.0	343.1	375.8	392.3	404.4	449.4	491.2	531.6
- Total	1895.4	1825.3	1831.7	1907.8	1943.0	1989.3	2169.4	2342.7	2493.6
Non-Energy [a]	632.6	649.0	655.5	663.2	714.8	757.2	871.1	969.1	1072.3
Total End Use	7411.3	7301.2	7321.9	7502.6	7698.7	7945.2	8785.8	9564.3	10296.6
Own Use	549.8	577.1	575.1	580.9	584.1	594.3	642.3	732.6	827.1
Electricity and Steam Generation [b][d]	2952.2	3093.7	3094.7	3145.5	3311.9	3432.0	3881.3	4284.8	4667.8
Other Conversions	157.8	155.7	151.5	158.4	166.1	175.6	202.4	229.9	252.7
Total Own Use and Conversions	3659.8	3826.4	3821.3	3884.8	4062.2	4201.8	4726.0	5247.3	5747.6
Less Electricity, Steam, Coke and Coke Oven Gas	1826.1	1891.8	1880.9	1919.6	1970.1	2039.4	2288.3	2525.7	2753.7
Primary Energy Demand	9237.4	9235.9	9262.3	9467.8	9790.8	10107.6	11223.5	12285.9	13290.5
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	823.1	958.2	926.6	1085.0	1148.1	1153.7	1238.3	1264.4	1232.9
Hydro [b]	1018.8	1041.4	1045.4	1059.7	1087.1	1112.5	1193.5	1259.2	1341.0
Oil	3268.7	3071.8	3093.1	3139.6	3174.7	3262.0	3469.6	3706.2	3904.4
Natural Gas	2299.7	2294.9	2367.0	2436.9	2528.3	2602.9	3040.1	3454.2	3947.3
NGL-Gas Plant	131.9	155.5	154.1	162.4	164.6	176.2	210.9	234.8	258.4
Ethane	113.7	113.9	108.2	102.8	115.5	129.2	178.5	210.3	243.7
Coal	1050.6	1060.1	1051.2	950.6	1024.6	1100.8	1256.3	1474.8	1637.5
Renewables and Others	530.8	538.0	517.6	531.6	548.5	571.0	636.8	682.4	725.9

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions Atlantic

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	122.4	119.8	123.3	124.4	124.5	124.8	126.7	129.1	130.6
Commercial	59.7	57.6	58.7	59.0	59.6	60.4	63.4	66.3	69.5
Industrial	149.8	146.9	143.5	143.9	145.8	148.2	165.2	174.1	177.3
Transportation - Road	128.5	124.5	126.7	126.9	129.0	131.9	137.0	143.5	148.3
- Air, Rail, Marine	56.2	54.6	44.1	57.2	59.2	60.7	66.8	73.5	79.9
- Total	184.6	179.2	170.9	184.1	188.2	192.6	203.7	217.0	228.2
Non-Energy [a]	21.5	19.3	18.6	18.8	21.4	22.1	20.5	21.0	21.5
Total End Use	538.0	522.7	515.0	530.2	539.5	548.1	579.5	607.5	627.0
Own Use	53.1	55.4	55.1	54.1	51.8	54.5	57.9	62.3	62.7
Electricity and Steam Generation [b][d]	356.7	361.2	374.9	379.5	404.2	408.9	463.2	487.2	508.4
Other Conversions	0.0	0.0	2.1	2.0	2.0	2.0	2.0	1.8	1.5
Total Own Use and Conversions	409.8	416.6	432.1	435.7	458.0	465.4	523.1	551.3	572.6
Less Electricity, Steam, Coke and Coke Oven Gas	129.6	129.5	130.5	132.0	134.8	137.5	154.4	164.0	171.0
Primary Energy Demand	818.2	809.8	816.6	833.9	862.7	876.0	948.2	994.8	1028.6
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	40.7	42.4	42.0	46.8	50.3	25.5	51.1	51.1	51.1
Hydro [b]	139.8	141.8	139.4	155.0	159.1	159.2	160.1	161.5	161.7
Oil	494.2	456.7	468.1	466.3	435.6	462.7	487.0	526.8	528.4
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NGL-Gas Plant	1.5	15.6	9.8	9.8	9.9	10.1	10.9	11.6	12.2
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	68.1	78.1	86.8	85.8	136.3	144.0	153.7	155.9	186.8
Renewables and Others	73.9	75.1	71.4	71.1	72.0	75.0	86.1	88.6	89.1

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Québec

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	316.0	303.7	314.2	314.8	315.0	315.2	320.3	323.6	332.9
Commercial	189.6	183.6	192.8	194.1	195.4	198.0	207.0	215.7	223.6
Industrial	566.0	550.9	553.2	571.2	582.6	608.9	678.3	749.4	822.6
Transportation - Road	326.5	311.8	319.6	333.3	334.2	335.5	344.9	368.7	394.2
- Air, Rail, Marine	70.3	63.5	66.3	65.2	68.0	70.0	77.5	84.7	91.6
- Total	396.8	375.3	385.9	398.5	402.1	405.5	422.4	453.3	485.7
Non-Energy [a]	73.4	81.2	73.6	74.9	81.8	86.1	86.3	91.6	97.5
Total End Use	1541.9	1494.7	1519.8	1553.5	1576.9	1613.7	1714.2	1833.6	1962.3
Own Use	92.2	94.1	92.4	100.6	102.3	105.0	112.7	123.4	135.3
Electricity and Steam Generation [b][d]	524.2	531.2	547.9	555.4	558.2	580.7	652.6	737.2	837.5
Other Conversions	0.0	0.4	4.2	4.3	4.4	4.6	5.2	5.8	6.3
Total Own Use and Conversions	616.4	625.7	644.4	660.4	664.9	690.3	770.5	866.4	979.1
Less Electricity, Steam, Coke and Coke Oven Gas	574.2	588.0	597.2	619.5	628.9	649.4	717.6	783.6	861.2
Primary Energy Demand	1584.1	1532.5	1567.1	1594.4	1612.8	1654.6	1767.1	1916.4	2080.2
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	49.2	47.3	57.8	60.4	53.8	53.8	53.8	53.8	53.8
Hydro [b]	455.5	477.4	476.4	488.9	495.3	512.5	571.2	621.7	682.2
Oil	706.6	644.9	663.1	663.3	674.0	677.2	687.3	715.8	748.5
Natural Gas	226.4	221.2	231.1	239.9	246.1	262.5	292.8	351.0	408.8
NGL-Gas Plant	18.4	21.9	16.2	16.7	17.1	17.9	21.7	24.1	26.4
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	20.3	13.6	13.3	13.7	14.0	14.7	16.4	18.2	20.1
Renewables and Others	107.7	105.8	109.2	111.4	112.7	116.0	124.1	131.9	140.4

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Ontario

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	527.4	518.7	542.2	545.1	548.7	555.4	575.7	608.7	646.4
Commercial	315.0	337.2	350.9	355.1	360.2	364.4	393.2	418.8	443.7
Industrial	804.1	802.8	781.1	818.7	864.6	920.2	1068.7	1206.4	1313.4
Transportation - Road	546.1	526.3	533.8	554.6	572.8	598.5	687.0	734.3	761.6
- Air, Rail, Marine	96.0	92.2	84.1	96.8	102.0	105.8	120.9	135.1	149.5
- Total	642.2	618.4	617.9	651.4	674.8	704.4	807.9	869.4	911.1
Non-Energy [a]	205.8	209.1	226.6	222.0	236.8	242.6	258.3	282.7	308.9
Total End Use	2494.5	2486.2	2518.6	2592.1	2684.8	2786.8	3103.7	3386.0	3623.4
Own Use	179.8	195.1	188.2	175.6	179.8	184.8	204.1	227.8	253.6
Electricity and Steam Generation [b][d]	1179.2	1296.0	1240.9	1265.7	1359.9	1418.0	1619.7	1822.2	1963.5
Other Conversions	145.0	143.0	131.1	137.4	145.2	154.6	179.8	203.0	221.1
Total Own Use and Conversions	1504.0	1634.1	1560.3	1578.7	1684.9	1757.3	2003.5	2253.0	2438.1
Less Electricity, Steam, Coke and Coke Oven Gas	654.3	680.6	657.0	658.9	686.0	714.3	813.6	910.8	993.8
Primary Energy Demand	3359.7	3443.2	3421.9	3511.9	3683.7	3829.9	4293.6	4728.2	5067.8
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	733.2	868.4	826.8	977.8	1044.1	1074.4	1133.5	1159.6	1128.0
Hydro [b]	143.9	134.6	142.2	144.0	143.0	143.0	144.0	144.0	157.5
Oil	1039.8	986.5	988.6	1015.7	1056.2	1098.9	1224.2	1309.7	1390.0
Natural Gas	826.2	849.1	906.0	934.9	963.1	995.9	1116.1	1237.2	1394.1
NGL-Gas Plant	59.5	68.8	73.1	71.6	73.3	73.9	82.2	91.3	100.4
Ethane	15.5	12.0	9.8	9.6	10.3	10.1	11.8	13.6	15.3
Coal	437.3	426.4	380.2	259.4	290.4	324.8	454.8	630.1	726.3
Renewables and Others	88.8	96.6	95.2	98.9	103.3	108.8	127.0	142.8	156.2

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Manitoba

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	68.2	65.6	62.1	62.6	62.9	63.4	66.1	67.5	69.4
Commercial	43.3	43.4	43.3	44.4	44.9	46.0	48.7	51.8	55.6
Industrial	53.0	50.7	46.5	46.7	47.9	49.6	55.6	63.3	69.2
Transportation - Road	59.7	58.9	58.8	53.0	53.1	54.2	56.8	60.9	64.0
- Air, Rail, Marine	15.1	13.2	11.8	13.7	14.3	14.6	15.5	15.9	16.1
- Total	74.9	72.1	70.6	66.7	67.3	68.8	72.3	76.8	80.1
Non-Energy [a]	9.0	9.3	9.0	9.1	9.8	10.1	10.7	11.3	12.7
Total End Use	248.5	241.0	231.5	229.5	232.9	237.9	253.4	270.8	286.9
Own Use	33.6	39.2	35.6	36.0	36.3	37.0	39.9	44.0	49.2
Electricity and Steam Generation [b][d]	69.0	72.6	77.0	73.6	76.4	78.3	84.8	89.7	92.9
Other Conversions	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Own Use and Conversions	102.6	112.1	112.6	109.5	112.8	115.2	124.7	133.7	142.1
Less Electricity, Steam, Coke and Coke Oven Gas	61.6	66.2	66.2	67.1	68.3	69.8	76.0	82.9	89.1
Primary Energy Demand	288.1	287.0	278.0	271.9	277.3	283.3	302.0	321.6	339.9
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	64.3	68.8	72.7	70.2	71.1	73.0	79.5	84.4	89.7
Oil	98.2	94.8	91.0	87.8	88.6	89.9	92.3	97.7	101.7
Natural Gas	104.6	104.0	97.4	97.9	99.4	101.8	110.5	118.5	131.2
NGL-Gas Plant	3.7	3.0	2.6	2.7	2.8	2.9	3.2	3.6	4.0
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	6.0	4.7	5.9	5.0	6.9	7.0	7.1	7.3	2.7
Renewables and Others	11.5	11.4	8.3	8.3	8.5	8.7	9.3	10.0	10.5

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Saskatchewan

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	86.0	83.4	82.3	82.9	83.1	83.4	86.1	88.5	91.1
Commercial	35.7	35.0	32.7	32.9	32.9	33.8	35.8	38.3	40.8
Industrial	77.2	92.7	108.2	108.4	110.4	112.1	118.9	125.2	131.0
Transportation - Road	66.8	72.4	71.2	69.8	70.8	72.7	75.3	79.4	82.5
- Air, Rail, Marine	11.1	6.9	6.5	7.1	7.3	7.5	7.9	8.1	8.2
- Total	77.9	79.4	77.8	76.9	78.1	80.2	83.3	87.4	90.7
Non-Energy [a]	12.8	11.8	11.7	11.8	13.1	13.6	13.0	13.7	14.4
Total End Use	289.6	302.3	312.6	312.9	317.7	323.0	337.1	353.1	368.0
Own Use	48.5	52.0	58.0	62.4	59.8	57.3	57.4	77.9	100.3
Electricity and Steam Generation [b][d]	132.2	132.2	144.1	145.6	151.6	152.6	163.1	176.4	186.7
Other Conversions	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Own Use and Conversions	180.7	184.5	202.1	208.1	211.4	209.9	220.5	254.3	287.0
Less Electricity, Steam, Coke and Coke Oven Gas	46.2	52.5	52.5	55.0	55.6	56.5	60.2	63.8	67.7
Primary Energy Demand	421.6	433.4	462.2	466.0	473.5	476.4	497.4	543.6	587.3
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	15.2	15.2	11.0	14.6	13.1	13.1	13.1	13.1	13.1
Oil	132.9	125.7	126.5	125.6	128.3	130.8	132.4	137.3	141.8
Natural Gas	144.1	162.3	184.0	185.5	184.8	187.0	200.0	231.7	268.4
NGL-Gas Plant	3.7	2.5	1.8	2.0	1.9	1.8	2.1	2.4	2.8
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	114.1	115.2	127.1	126.5	133.5	131.7	137.5	146.3	148.2
Renewables and Others	11.6	12.2	11.8	11.8	12.0	12.1	12.5	12.8	13.0

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
Alberta

(Petajoules)	High Tech Case								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	188.0	182.7	184.0	185.5	186.9	188.0	197.9	209.3	223.1
Commercial	141.3	133.2	128.6	129.8	130.9	133.1	141.6	150.0	159.1
Industrial	439.6	421.4	417.0	423.7	436.4	461.0	602.2	708.7	798.9
Transportation - Road	214.0	196.8	196.7	206.5	203.4	203.3	210.3	231.8	253.1
- Air, Rail, Marine	47.7	40.7	36.2	43.1	45.1	46.5	51.0	54.1	56.9
- Total	261.7	237.5	232.9	249.6	248.5	249.8	261.3	285.9	309.9
Non-Energy [a]	267.6	280.0	272.7	282.9	305.1	333.6	428.5	489.0	550.8
Total End Use	1298.1	1254.9	1235.1	1271.5	1307.9	1365.6	1631.6	1843.0	2041.8
Own Use	78.7	76.8	77.9	81.4	81.9	82.6	91.1	105.1	119.2
Electricity and Steam Generation [b][d]	458.9	474.7	495.5	505.5	505.0	527.5	598.1	633.6	678.8
Other Conversions	12.8	11.4	12.6	13.0	12.9	12.7	13.6	17.4	21.6
Total Own Use and Conversions	550.5	562.9	586.0	599.9	599.8	622.8	702.9	756.1	819.5
Less Electricity, Steam, Coke and Coke Oven Gas	148.8	161.9	165.5	169.0	171.6	177.9	202.9	227.0	248.9
Primary Energy Demand	1696.2	1650.4	1655.6	1702.4	1736.2	1810.4	2131.6	2372.0	2612.4
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	7.4	7.3	5.7	6.6	6.6	6.6	6.6	6.6	6.6
Oil	406.5	376.7	373.2	394.1	400.4	407.1	428.2	468.4	506.7
Natural Gas	729.4	690.5	682.7	682.9	715.2	722.9	942.8	1069.7	1191.7
NGL-Gas Plant	33.7	29.7	39.9	47.7	46.6	54.8	75.1	85.0	94.9
Ethane	98.2	101.9	98.4	93.2	105.2	119.0	166.7	196.8	228.3
Coal	397.5	413.5	420.6	442.3	424.9	459.3	465.7	494.3	528.7
Renewables and Others	23.5	30.6	35.2	35.6	37.3	40.6	46.3	51.3	55.5

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-8 (Continued)

Total Energy Demand - End Use by Sector - Primary Demand by Fuel - Canada and Regions
British Columbia and Territories

(Petajoules)		High Tech Case							
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand									
Residential	141.8	143.9	145.6	147.1	148.5	150.0	159.3	171.3	185.7
Commercial	108.2	113.3	115.4	117.0	119.8	125.1	139.7	155.9	173.2
Industrial	450.7	440.6	409.4	424.5	439.9	457.8	495.2	530.7	574.0
Transportation - Road	171.8	174.5	181.8	188.0	187.4	188.8	208.7	233.1	258.4
- Air, Rail, Marine	85.5	88.9	93.9	92.7	96.5	99.3	109.8	119.8	129.5
- Total	257.3	263.4	275.7	280.7	283.9	288.0	318.5	352.9	387.9
Non-Energy [a]	42.5	41.5	43.2	43.6	46.8	49.0	53.7	59.7	66.5
Total End Use	1000.5	1002.6	989.2	1012.9	1039.0	1070.0	1166.4	1270.4	1387.3
Own Use	63.8	64.5	67.9	70.8	72.1	73.1	79.1	92.0	106.9
Electricity and Steam Generation [b][d]	232.1	225.8	214.3	220.2	256.7	266.1	299.8	338.5	400.1
Other Conversions	0.0	0.3	1.5	1.6	1.7	1.7	1.9	2.0	2.2
Total Own Use and Conversions	295.9	290.5	283.8	292.6	330.4	340.9	380.8	432.5	509.2
Less Electricity, Steam, Coke and Coke Oven Gas	211.3	213.1	212.0	218.1	225.0	234.0	263.7	293.6	322.1
Primary Energy Demand	1085.1	1079.7	1061.0	1087.4	1144.5	1177.0	1283.5	1409.2	1574.4
Primary Energy Demand by Fuel [c][d]									
Nuclear [b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro [b]	192.7	196.2	198.0	180.4	198.9	205.1	219.2	228.0	230.2
Oil	390.6	386.4	382.6	386.8	391.5	395.2	418.2	450.6	487.4
Natural Gas	269.1	267.8	265.9	295.9	319.7	332.8	377.9	446.2	553.2
NGL-Gas Plant	11.5	14.1	10.7	11.9	13.1	14.7	15.7	16.7	17.8
Ethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	7.3	8.6	17.3	17.9	18.6	19.3	21.0	22.7	24.6
Renewables and Others	213.8	206.3	186.5	194.4	202.8	209.8	231.5	245.0	261.2

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MW.h; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-9

Total Energy Demand - End Use by Sector - Primary Demand by Fuel

Canada

(Petajoules)		Alternative Macro Case								
		1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Sectoral Demand										
Residential		1449.9	1417.7	1453.7	1461.8	1468.9	1480.4	1529.6	1584.9	1649.8
Commercial		892.8	903.3	922.4	932.7	943.3	952.9	1012.3	1066.7	1125.9
Industrial		2540.6	2506.0	2458.8	2561.0	2691.2	2856.7	3435.6	3951.9	4481.0
Transportation	- Road	1513.4	1465.3	1488.6	1532.1	1551.4	1586.6	1728.3	1864.4	1974.7
	- Air, Rail, Marine	382.0	360.0	343.1	375.8	392.7	405.4	456.7	506.2	558.6
	- Total	1895.4	1825.3	1831.7	1907.9	1944.1	1992.0	2185.0	2370.6	2533.2
Non-Energy [a]		632.6	649.0	655.5	663.2	714.8	757.1	871.0	968.9	1071.8
Total End Use		7411.3	7301.2	7321.9	7526.4	7762.2	8039.0	9033.4	9942.9	10861.8
Own Use		549.8	581.0	575.1	581.8	586.4	597.6	651.3	746.4	847.4
Electricity and Steam Generation [b][d]		2952.2	3105.2	3094.7	3145.7	3312.5	3432.9	3883.9	4288.8	4673.9
Other Conversions		157.8	153.6	151.5	159.7	169.9	181.9	219.2	256.8	293.6
Total Own Use and Conversions		3659.8	3839.8	3821.3	3887.2	4068.8	4212.4	4754.4	5292.0	5814.9
Less Electricity, Steam, Coke and Coke Oven Gas		1826.1	1885.3	1880.9	1929.0	1994.7	2075.0	2381.3	2666.8	2964.8
Primary Energy Demand		9237.4	9105.3	9262.3	9484.5	9836.3	10176.4	11406.5	12568.1	13711.8
Primary Energy Demand by Fuel [c][d]										
Nuclear [b]		823.1	825.6	926.6	1085.2	1148.6	1154.5	1240.5	1267.9	1238.1
Hydro [b]		1018.8	1036.9	1045.4	1059.7	1087.1	1112.5	1193.5	1259.2	1341.0
Oil		3268.7	3072.8	3093.1	3141.9	3182.3	3274.6	3511.9	3774.3	4003.1
Natural Gas		2299.7	2301.9	2367.0	2444.7	2548.6	2631.7	3111.7	3560.9	4109.9
NGL-Gas Plant		131.9	156.6	154.1	162.6	165.1	177.0	212.9	237.8	262.9
Ethane		113.7	113.9	108.2	102.8	115.5	129.2	178.5	210.3	243.7
Coal		1050.6	1061.6	1051.2	952.4	1029.7	1109.1	1278.2	1509.7	1690.3
Renewables and Others		530.8	538.0	517.6	536.0	559.9	588.4	679.8	748.6	823.4

(1) 1991 last year of actual data

[a] Includes Petrochemicals.

[b] Hydro is converted at 3.6 GJ/MWh. A typical conversion rate for nuclear plants is 12.1 GJ/MWh; actual rates are based on specific plant efficiencies.

[c] Butanes for blending in gasoline is excluded from oil and included in NGL-Gas Plant at primary fuels level.

[d] Fuels used to generate electricity exports are not included

Table A4-10

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Current Tech Case								
	Canada								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	5.5	4.2	3.8	4.0	4.3	4.6	5.4	5.4	5.4
Motor Gasoline	1119.0	1059.2	1085.2	1119.6	1132.0	1158.9	1254.1	1337.6	1402.6
Av. Turbo - Kerosene (Jet A-1)	154.5	140.4	119.8	143.9	155.6	163.8	193.7	218.6	243.4
- Naphtha (Jet B)	25.2	21.0	17.6	20.8	22.1	22.9	24.8	25.4	25.5
- Total	179.7	161.3	137.5	164.7	177.7	186.7	218.5	244.0	268.9
Light Fuel and Kerosene	273.1	245.5	244.5	235.4	229.8	222.6	203.6	191.2	176.3
Diesel Fuel Oil	657.8	621.7	625.7	638.8	649.2	660.1	709.7	762.5	813.9
Heavy Fuel Oil	413.8	370.8	377.0	359.4	342.1	387.8	483.3	591.1	654.6
Asphalt	124.3	122.3	118.6	120.3	147.2	156.7	133.4	136.7	140.2
Lubes and Greases	36.6	34.2	34.3	34.5	34.8	35.3	37.2	39.2	41.3
Petrochemical Feedstock	133.9	124.9	129.7	128.5	131.3	134.4	149.4	164.0	179.9
Refinery LPG	55.9	54.1	61.1	62.4	64.4	65.4	70.1	72.1	73.0
Other Products	269.0	274.6	275.8	282.4	287.4	296.9	326.1	355.8	381.3
Total Products [a]	3268.7	3072.8	3093.1	3150.3	3200.1	3309.4	3590.7	3899.6	4137.4
Atlantic									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Motor Gasoline	100.3	82.6	87.7	87.3	88.9	91.4	94.1	97.8	101.3
Av. Turbo - Kerosene (Jet A-1)	15.0	13.9	9.9	14.2	15.4	16.2	19.0	21.3	23.5
- Naphtha (Jet B)	6.3	4.8	1.5	5.2	5.5	5.7	6.2	6.4	6.4
- Total	21.3	18.8	11.4	19.5	20.9	21.9	25.2	27.6	29.9
Light Fuel and Kerosene	76.7	73.4	74.5	74.4	74.1	73.8	73.1	74.5	75.0
Diesel Fuel Oil	69.4	67.3	67.5	68.4	70.1	71.3	80.0	84.7	90.0
Heavy Fuel Oil	174.8	163.5	175.1	164.6	128.2	148.7	157.9	183.1	172.4
Asphalt	13.7	12.9	12.3	12.5	14.8	15.6	13.5	13.7	13.9
Lubes and Greases	2.2	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2
Petrochemical Feedstock	5.3	4.2	4.2	4.2	4.4	4.4	4.8	5.0	5.2
Refinery LPG	6.1	4.5	6.9	7.0	7.1	7.2	7.8	8.3	8.7
Other Products	24.1	26.0	26.3	26.2	24.8	26.2	27.5	29.7	29.6
Total Products [a]	494.2	455.4	468.1	466.3	435.6	462.7	486.1	526.8	528.4

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-10 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Current Tech Case								
	Québec								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.9	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8
Motor Gasoline	244.8	231.5	238.6	250.5	250.5	250.8	255.7	271.7	288.8
Av. Turbo - Kerosene (Jet A-1)	33.7	26.8	26.3	27.8	30.1	31.9	38.5	44.4	50.5
- Naphtha (Jet B)	2.7	2.7	3.9	2.1	2.3	2.4	2.5	2.6	2.6
- Total	36.4	29.5	30.1	29.9	32.4	34.2	41.1	47.0	53.1
Light Fuel and Kerosene	89.3	79.4	80.2	76.9	74.7	70.3	62.4	51.8	38.3
Diesel Fuel Oil	116.5	110.2	112.1	113.4	113.9	114.8	116.6	121.2	126.3
Heavy Fuel Oil	107.6	84.0	92.4	86.4	94.3	100.4	115.8	155.2	174.6
Asphalt	33.0	31.5	30.6	31.0	37.2	40.1	34.5	35.5	36.4
Lubes and Greases	5.8	5.6	5.6	5.7	5.7	5.9	6.1	6.4	6.8
Petrochemical Feedstock	13.9	7.8	7.0	7.2	7.3	7.9	9.1	9.7	10.5
Refinery LPG	9.6	9.8	10.1	10.3	10.5	10.6	11.0	12.1	12.2
Other Products	49.0	54.8	55.8	56.6	57.9	58.9	62.7	68.6	73.9
Total Products [a]	706.6	644.9	663.1	668.4	685.1	694.6	715.8	780.0	821.7
Ontario									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	1.5	1.0	0.9	1.0	1.0	1.1	1.4	1.5	1.5
Motor Gasoline	412.1	398.1	400.7	417.3	432.9	455.4	526.1	553.4	560.9
Av. Turbo - Kerosene (Jet A-1)	48.4	44.6	34.2	46.1	49.9	52.7	63.4	72.6	82.0
- Naphtha (Jet B)	2.7	2.5	5.0	2.2	2.3	2.4	2.7	2.8	2.9
- Total	51.1	47.2	39.2	48.3	52.3	55.2	66.1	75.4	85.0
Light Fuel and Kerosene	72.7	60.0	60.7	56.5	54.6	53.5	46.5	44.1	43.0
Diesel Fuel Oil	169.8	156.9	159.9	166.8	170.7	174.6	193.3	214.1	234.2
Heavy Fuel Oil	76.8	66.0	61.9	63.0	73.5	91.5	157.9	196.4	246.1
Asphalt	28.9	35.2	34.0	34.6	44.0	47.0	38.8	40.0	41.1
Lubes and Greases	16.9	15.9	16.0	16.1	16.3	16.4	17.4	18.5	19.6
Petrochemical Feedstock	103.4	99.9	105.6	104.1	106.7	109.0	121.0	132.5	145.5
Refinery LPG	15.1	14.3	16.3	17.2	17.8	18.7	21.8	22.0	22.4
Other Products	91.5	94.0	93.4	96.1	99.8	104.4	119.2	129.7	139.6
Total Products [a]	1039.8	988.5	988.6	1021.0	1069.5	1126.9	1309.4	1427.5	1539.0

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-10 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Current Tech Case								
	Manitoba								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Motor Gasoline	47.9	48.3	47.5	42.3	42.3	43.2	44.8	47.6	49.6
Av. Turbo - Kerosene (Jet A-1)	5.4	4.9	4.0	4.9	5.2	5.4	5.9	6.1	6.1
- Naphtha (Jet B)	1.4	1.1	0.6	1.1	1.2	1.2	1.4	1.4	1.4
- Total	6.8	6.1	4.5	6.0	6.4	6.7	7.2	7.4	7.5
Light Fuel and Kerosene	3.2	3.9	2.9	2.7	2.2	1.7	1.2	1.1	0.9
Diesel Fuel Oil	33.9	30.0	29.6	30.2	30.5	30.9	32.4	34.2	35.7
Heavy Fuel Oil	2.0	2.0	2.0	2.2	2.4	2.6	3.4	3.8	4.3
Asphalt	2.2	2.9	2.8	2.9	3.5	3.8	3.2	3.3	3.3
Lubes and Greases	1.2	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
Petrochemical Feedstock	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Refinery LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Products	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Products [a]	98.2	94.8	91.0	88.0	89.1	90.5	94.1	99.4	103.3

	Saskatchewan								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Motor Gasoline	56.7	57.1	57.2	55.5	56.4	58.2	60.1	63.0	65.3
Av. Turbo - Kerosene (Jet A-1)	1.9	1.7	1.4	1.7	1.8	1.8	2.0	2.1	2.2
- Naphtha (Jet B)	1.3	1.2	0.2	1.0	1.1	1.1	1.2	1.3	1.3
- Total	3.2	2.8	1.6	2.7	2.9	3.0	3.3	3.4	3.5
Light Fuel and Kerosene	4.1	2.9	3.3	3.1	3.0	2.9	2.3	2.4	1.9
Diesel Fuel Oil	46.6	46.6	46.3	46.1	46.4	46.6	47.9	49.3	50.5
Heavy Fuel Oil	3.4	3.4	3.5	3.7	3.9	4.1	5.3	6.5	7.9
Asphalt	9.2	6.0	5.7	5.8	7.0	7.4	6.3	6.3	6.4
Lubes and Greases	1.7	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7
Petrochemical Feedstock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refinery LPG	1.5	1.3	2.3	2.2	2.4	2.5	2.6	2.6	2.6
Other Products	5.9	4.6	4.7	4.8	4.8	4.9	5.4	6.0	6.5
Total Products [a]	132.9	126.5	126.5	125.7	128.7	131.5	135.1	141.5	146.7

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-10 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Current Tech Case								
	Alberta								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Motor Gasoline	131.7	115.5	122.5	131.2	127.8	126.8	129.4	144.5	159.3
Av. Turbo - Kerosene (Jet A-1)	18.3	16.3	14.1	16.5	17.7	18.5	21.2	23.2	24.9
- Naphtha (Jet B)	6.2	4.5	2.1	5.0	5.3	5.5	5.9	6.0	5.9
- Total	24.5	20.8	16.1	21.5	23.0	24.0	27.1	29.1	30.9
Light Fuel and Kerosene	3.3	2.7	2.2	2.2	2.2	2.3	2.4	2.5	2.5
Diesel Fuel Oil	113.5	105.6	102.0	104.3	105.1	106.9	114.3	122.9	131.3
Heavy Fuel Oil	1.3	1.4	1.1	1.1	1.2	1.3	2.2	2.6	2.9
Asphalt	24.0	21.9	21.5	21.8	26.2	27.6	24.0	24.6	25.3
Lubes and Greases	4.4	4.0	4.1	4.1	4.1	4.2	4.4	4.6	4.8
Petrochemical Feedstock	10.0	11.7	11.7	11.8	12.2	12.4	13.8	15.9	17.9
Refinery LPG	19.4	21.0	19.6	20.8	22.5	23.7	24.2	24.4	24.4
Other Products	73.9	71.7	72.1	74.8	75.9	77.8	85.0	93.3	100.7
Total Products [a]	406.5	376.7	373.2	394.1	400.6	407.5	427.2	465.0	500.5

British Columbia and Territories

	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	1.5	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Motor Gasoline	125.6	126.1	131.0	135.5	133.2	133.1	144.1	159.6	177.4
Av. Turbo - Kerosene (Jet A-1)	31.8	32.1	30.1	32.8	35.4	37.2	43.7	49.0	54.2
- Naphtha (Jet B)	4.7	4.2	4.4	4.1	4.3	4.5	4.9	5.0	5.0
- Total	36.5	36.2	34.5	36.9	39.7	41.7	48.6	54.0	59.2
Light Fuel and Kerosene	24.0	23.1	20.6	19.7	18.9	18.1	15.8	14.9	14.7
Diesel Fuel Oil	108.1	105.1	108.2	109.6	112.5	115.1	125.4	136.1	145.8
Heavy Fuel Oil	47.8	50.4	41.1	38.4	38.7	39.2	40.8	43.5	46.5
Asphalt	13.2	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.3	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Petrochemical Feedstock	1.2	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Refinery LPG	4.1	3.2	5.9	4.9	4.0	2.6	2.7	2.7	2.7
Other Products	24.3	23.4	23.4	23.7	24.0	24.4	26.1	28.3	30.6
Total Products [a]	390.6	385.9	382.6	386.8	391.6	395.7	423.0	459.3	497.7

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-11

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	High Tech Case								
	Canada								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	5.5	4.2	3.8	4.0	4.3	4.6	5.4	5.4	5.4
Motor Gasoline	1119.0	1059.2	1085.2	1119.6	1132.0	1158.9	1254.1	1337.5	1402.6
Av. Turbo - Kerosene (Jet A-1)	154.5	140.4	119.8	143.9	155.6	163.8	193.7	218.6	243.4
- Naphtha (Jet B)	25.2	21.0	17.6	20.8	22.1	22.9	24.8	25.4	25.5
- Total	179.7	161.3	137.5	164.7	177.7	186.7	218.5	244.0	268.9
Light Fuel and Kerosene	273.1	245.5	244.5	230.6	221.0	208.2	164.6	134.4	108.8
Diesel Fuel Oil	657.8	621.7	625.7	638.8	649.3	660.6	712.4	767.6	821.4
Heavy Fuel Oil	413.8	370.8	377.0	354.3	327.1	357.6	406.2	459.2	491.7
Asphalt	124.3	122.3	118.6	120.3	147.2	156.7	133.4	136.7	140.2
Lubes and Greases	36.6	34.2	34.3	34.5	34.8	35.3	37.2	39.2	41.3
Petrochemical Feedstock	133.9	124.9	129.7	128.5	131.3	134.4	149.3	163.9	179.9
Refinery LPG	55.9	54.1	61.1	62.3	64.0	64.7	68.4	71.2	72.8
Other Products	269.0	274.6	275.8	281.8	286.0	294.3	320.1	347.1	371.6
Total Products [a]	3268.7	3072.8	3093.1	3139.6	3174.7	3262.0	3469.6	3706.2	3904.4
Atlantic									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Motor Gasoline	100.3	82.6	87.7	87.3	88.9	91.4	94.1	97.8	101.3
Av. Turbo - Kerosene (Jet A-1)	15.0	13.9	9.9	14.2	15.4	16.2	19.0	21.3	23.5
- Naphtha (Jet B)	6.3	4.8	1.5	5.2	5.5	5.7	6.2	6.4	6.4
- Total	21.3	18.8	11.4	19.5	20.9	21.9	25.2	27.6	29.9
Light Fuel and Kerosene	76.7	73.4	74.5	74.4	74.1	73.8	73.1	74.5	75.0
Diesel Fuel Oil	69.4	67.3	67.5	68.4	70.1	71.3	80.0	84.7	90.0
Heavy Fuel Oil	174.8	163.5	175.1	164.6	128.2	148.7	158.7	183.1	172.4
Asphalt	13.7	12.9	12.3	12.5	14.8	15.6	13.5	13.7	13.9
Lubes and Greases	2.2	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2
Petrochemical Feedstock	5.3	4.2	4.2	4.2	4.4	4.4	4.8	5.0	5.2
Refinery LPG	6.1	4.5	6.9	7.0	7.1	7.2	7.8	8.3	8.7
Other Products	24.1	26.0	26.3	26.2	24.8	26.2	27.5	29.7	29.6
Total Products [a]	494.2	455.4	468.1	466.3	435.6	462.7	487.0	526.8	528.4

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-11 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	High Tech Case Québec								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.9	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8
Motor Gasoline	244.8	231.5	238.6	250.5	250.5	250.8	255.7	271.7	288.8
Av. Turbo - Kerosene (Jet A-1)	33.7	26.8	26.3	27.8	30.1	31.9	38.5	44.4	50.5
- Naphtha (Jet B)	2.7	2.7	3.9	2.1	2.3	2.4	2.5	2.6	2.6
- Total	36.4	29.5	30.1	29.9	32.4	34.2	41.1	47.0	53.1
Light Fuel and Kerosene	89.3	79.4	80.2	72.0	67.0	59.1	44.4	28.2	14.0
Diesel Fuel Oil	116.5	110.2	112.1	113.4	113.9	114.8	116.7	121.5	126.6
Heavy Fuel Oil	107.6	84.0	92.3	86.4	91.4	95.2	106.8	118.0	129.1
Asphalt	33.0	31.5	30.6	31.0	37.2	40.1	34.5	35.5	36.4
Lubes and Greases	5.8	5.6	5.6	5.7	5.7	5.9	6.1	6.4	6.7
Petrochemical Feedstock	13.9	7.8	7.0	7.2	7.3	7.9	9.1	9.7	10.5
Refinery LPG	9.6	9.8	10.1	10.3	10.3	10.3	10.6	11.2	11.8
Other Products	49.0	54.8	55.8	56.4	57.4	58.2	61.4	65.8	70.6
Total Products [a]	706.6	644.9	663.1	663.3	674.0	677.2	687.3	715.8	748.5

Ontario									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	1.5	1.0	0.9	1.0	1.0	1.1	1.4	1.5	1.5
Motor Gasoline	412.1	398.1	400.7	417.3	432.9	455.4	526.1	553.3	560.9
Av. Turbo - Kerosene (Jet A-1)	48.4	44.6	34.2	46.1	49.9	52.7	63.4	72.6	82.0
- Naphtha (Jet B)	2.7	2.5	5.0	2.2	2.3	2.4	2.7	2.8	2.9
- Total	51.1	47.2	39.2	48.3	52.3	55.2	66.1	75.4	85.0
Light Fuel and Kerosene	72.7	60.0	60.7	56.5	54.1	51.7	32.5	22.4	12.6
Diesel Fuel Oil	169.8	156.9	159.9	166.8	170.7	174.7	194.0	215.5	236.3
Heavy Fuel Oil	76.8	66.0	61.9	58.2	61.9	67.6	93.0	106.7	135.2
Asphalt	28.9	35.2	34.0	34.6	44.0	47.0	38.8	40.0	41.1
Lubes and Greases	16.9	15.9	16.0	16.1	16.3	16.4	17.4	18.5	19.6
Petrochemical Feedstock	103.4	99.9	105.6	104.1	106.7	109.0	121.0	132.5	145.5
Refinery LPG	15.1	14.3	16.3	17.1	17.6	18.3	20.5	22.0	22.5
Other Products	91.5	94.0	93.4	95.8	98.9	102.5	113.5	121.8	129.7
Total Products [a]	1039.8	988.5	988.6	1015.7	1056.2	1098.9	1224.2	1309.7	1390.0

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-11 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	High Tech Case Manitoba								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Motor Gasoline	47.9	48.3	47.5	42.3	42.3	43.2	44.8	47.6	49.6
Av. Turbo - Kerosene (Jet A-1)	5.4	4.9	4.0	4.9	5.2	5.4	5.9	6.1	6.1
- Naphtha (Jet B)	1.4	1.1	0.6	1.1	1.2	1.2	1.4	1.4	1.4
- Total	6.8	6.1	4.5	6.0	6.4	6.7	7.2	7.4	7.5
Light Fuel and Kerosene	3.2	3.9	2.9	2.7	2.1	1.6	0.6	0.7	0.7
Diesel Fuel Oil	33.9	30.0	29.6	30.2	30.5	30.9	32.4	34.3	35.9
Heavy Fuel Oil	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.4	2.6
Asphalt	2.2	2.9	2.8	2.9	3.5	3.8	3.2	3.3	3.3
Lubes and Greases	1.2	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
Petrochemical Feedstock	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Refinery LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Products	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Products [a]	98.2	94.8	91.0	87.8	88.6	89.9	92.3	97.7	101.7

Saskatchewan									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Motor Gasoline	56.7	57.1	57.2	55.5	56.4	58.2	60.1	63.0	65.3
Av. Turbo - Kerosene (Jet A-1)	1.9	1.7	1.4	1.7	1.8	1.8	2.0	2.1	2.2
- Naphtha (Jet B)	1.3	1.2	0.2	1.0	1.1	1.1	1.2	1.3	1.3
- Total	3.2	2.8	1.6	2.7	2.9	3.0	3.3	3.4	3.5
Light Fuel and Kerosene	4.1	2.9	3.3	3.1	2.9	2.6	1.0	0.5	0.4
Diesel Fuel Oil	46.6	46.6	46.3	46.1	46.4	46.7	48.1	49.7	51.1
Heavy Fuel Oil	3.4	3.4	3.5	3.6	3.6	3.6	3.6	3.8	3.9
Asphalt	9.2	6.0	5.7	5.8	7.0	7.4	6.3	6.3	6.4
Lubes and Greases	1.7	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7
Petrochemical Feedstock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refinery LPG	1.5	1.3	2.3	2.2	2.4	2.5	2.6	2.6	2.6
Other Products	5.9	4.6	4.7	4.8	4.8	4.9	5.4	5.9	6.5
Total Products [a]	132.9	126.5	126.5	125.6	128.3	130.8	132.4	137.3	141.8

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-11 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	High Tech Case								
	Alberta								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Motor Gasoline	131.7	115.5	122.5	131.2	127.8	126.8	129.4	144.5	159.3
Av. Turbo - Kerosene (Jet A-1)	18.3	16.3	14.1	16.5	17.7	18.5	21.2	23.2	24.9
- Naphtha (Jet B)	6.2	4.5	2.1	5.0	5.3	5.5	5.9	6.0	5.9
- Total	24.5	20.8	16.1	21.5	23.0	24.0	27.1	29.1	30.9
Light Fuel and Kerosene	3.3	2.7	2.2	2.2	2.0	1.8	1.9	2.2	2.4
Diesel Fuel Oil	113.5	105.6	102.0	104.3	105.2	107.0	115.3	125.0	134.6
Heavy Fuel Oil	1.3	1.4	1.1	1.1	1.1	1.2	1.6	1.8	2.0
Asphalt	24.0	21.9	21.5	21.8	26.2	27.6	24.0	24.6	25.3
Lubes and Greases	4.4	4.0	4.1	4.1	4.1	4.2	4.4	4.6	4.8
Petrochemical Feedstock	10.0	11.7	11.7	11.8	12.2	12.4	13.8	15.9	17.9
Refinery LPG	19.4	21.0	19.6	20.8	22.5	23.7	24.2	24.4	24.4
Other Products	73.9	71.7	72.1	74.8	75.9	77.9	86.1	95.7	104.7
Total Products [a]	406.5	376.7	373.2	394.1	400.4	407.1	428.2	468.4	506.7

British Columbia and Territories

	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	1.5	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Motor Gasoline	125.6	126.1	131.0	135.5	133.2	133.1	144.1	159.6	177.4
Av. Turbo - Kerosene (Jet A-1)	31.8	32.1	30.1	32.8	35.4	37.2	43.7	49.0	54.2
- Naphtha (Jet B)	4.7	4.2	4.4	4.1	4.3	4.5	4.9	5.0	5.0
- Total	36.5	36.2	34.5	36.9	39.7	41.7	48.6	54.0	59.2
Light Fuel and Kerosene	24.0	23.1	20.6	19.7	18.7	17.5	11.0	5.8	3.7
Diesel Fuel Oil	108.1	105.1	108.2	109.6	112.5	115.2	125.9	136.9	146.9
Heavy Fuel Oil	47.8	50.4	41.1	38.4	38.8	39.3	40.5	43.5	46.5
Asphalt	13.2	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.3	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Petrochemical Feedstock	1.2	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Refinery LPG	4.1	3.2	5.9	4.9	4.0	2.6	2.7	2.7	2.7
Other Products	24.3	23.4	23.4	23.7	24.0	24.4	25.9	27.9	30.2
Total Products [a]	390.6	385.9	382.6	386.8	391.5	395.2	418.2	450.6	487.4

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-12

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Alternative Macro Case								
	Canada								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	5.5	4.2	3.8	4.0	4.3	4.6	5.4	5.4	5.4
Motor Gasoline	1119.0	1059.2	1085.2	1119.7	1132.5	1160.4	1261.3	1348.1	1411.3
Av. Turbo - Kerosene (Jet A-1)	154.5	140.4	119.8	144.0	155.8	164.1	194.9	219.5	245.2
- Naphtha (Jet B)	25.2	21.0	17.6	20.8	22.2	22.9	24.9	25.5	25.7
- Total	179.7	161.3	137.5	164.8	178.0	187.0	219.8	245.0	270.9
Light Fuel and Kerosene	273.1	245.5	244.5	230.7	221.2	208.1	163.8	132.0	103.8
Diesel Fuel Oil	657.8	621.7	625.7	638.9	650.7	663.6	724.4	789.0	856.2
Heavy Fuel Oil	413.8	370.8	377.0	355.8	331.1	363.8	423.6	488.7	538.1
Asphalt	124.3	122.3	118.6	120.3	147.2	156.7	133.3	136.6	139.8
Lubes and Greases	36.6	34.2	34.3	34.5	34.8	35.3	37.2	39.1	41.2
Petrochemical Feedstock	133.9	124.9	129.7	128.5	131.3	134.4	149.3	163.9	179.9
Refinery LPG	55.9	54.1	61.1	62.4	64.0	64.8	68.6	71.4	73.1
Other Products	269.0	274.6	275.8	282.2	287.1	296.0	325.2	355.1	383.5
Total Products [a]	3268.7	3072.8	3093.1	3141.9	3182.3	3274.6	3511.9	3774.3	4003.1
Atlantic									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Motor Gasoline	100.3	82.6	87.7	87.3	89.0	91.5	94.8	98.7	101.8
Av. Turbo - Kerosene (Jet A-1)	15.0	13.9	9.9	14.3	15.4	16.2	19.1	21.4	23.7
- Naphtha (Jet B)	6.3	4.8	1.5	5.2	5.5	5.7	6.2	6.4	6.4
- Total	21.3	18.8	11.4	19.5	20.9	21.9	25.3	27.7	30.1
Light Fuel and Kerosene	76.7	73.4	74.5	74.4	74.1	73.7	72.5	73.0	72.3
Diesel Fuel Oil	69.4	67.3	67.5	68.5	70.3	71.6	81.4	87.6	95.2
Heavy Fuel Oil	174.8	163.5	175.1	165.1	129.3	150.3	162.8	189.5	182.3
Asphalt	13.7	12.9	12.3	12.5	14.8	15.6	13.5	13.7	13.9
Lubes and Greases	2.2	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2
Petrochemical Feedstock	5.3	4.2	4.2	4.2	4.4	4.4	4.8	5.0	5.2
Refinery LPG	6.1	4.5	6.9	7.0	7.2	7.3	8.0	8.5	9.0
Other Products	24.1	26.0	26.3	26.3	24.9	26.3	27.9	30.3	30.4
Total Products [a]	494.2	455.4	468.1	467.0	437.2	464.8	493.3	536.5	542.7

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-12 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Alternative Macro Case								
	Québec								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.9	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8
Motor Gasoline	244.8	231.5	238.6	250.5	250.6	251.3	258.2	275.6	292.4
Av. Turbo - Kerosene (Jet A-1)	33.7	26.8	26.3	27.8	30.2	31.9	38.8	44.6	50.9
- Naphtha (Jet B)	2.7	2.7	3.9	2.1	2.3	2.4	2.6	2.6	2.6
- Total	36.4	29.5	30.1	29.9	32.5	34.3	41.3	47.2	53.5
Light Fuel and Kerosene	89.3	79.4	80.2	72.0	67.1	59.2	44.4	27.9	12.7
Diesel Fuel Oil	116.5	110.2	112.1	113.5	114.4	115.4	118.7	124.7	131.5
Heavy Fuel Oil	107.6	84.0	92.3	87.0	93.2	97.9	114.4	130.6	148.8
Asphalt	33.0	31.5	30.6	31.0	37.2	40.1	34.5	35.4	36.4
Lubes and Greases	5.8	5.6	5.6	5.7	5.7	5.9	6.1	6.4	6.7
Petrochemical Feedstock	13.9	7.8	7.0	7.2	7.3	7.9	9.1	9.7	10.5
Refinery LPG	9.6	9.8	10.1	10.3	10.3	10.3	10.6	11.2	11.8
Other Products	49.0	54.8	55.8	56.4	57.6	58.5	62.5	67.4	73.0
Total Products [a]	706.6	644.9	663.1	664.2	676.6	681.6	700.7	737.1	778.2
Ontario									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	1.5	1.0	0.9	1.0	1.0	1.1	1.4	1.5	1.5
Motor Gasoline	412.1	398.1	400.7	417.3	433.0	455.7	528.0	556.7	565.2
Av. Turbo - Kerosene (Jet A-1)	48.4	44.6	34.2	46.1	50.0	52.8	63.7	72.9	82.6
- Naphtha (Jet B)	2.7	2.5	5.0	2.2	2.3	2.4	2.7	2.9	3.0
- Total	51.1	47.2	39.2	48.3	52.4	55.3	66.5	75.7	85.6
Light Fuel and Kerosene	72.7	60.0	60.7	56.6	54.1	51.6	32.4	21.9	11.2
Diesel Fuel Oil	169.8	156.9	159.9	166.9	171.2	175.7	197.5	222.1	248.0
Heavy Fuel Oil	76.8	66.0	61.9	58.4	62.5	68.6	96.1	112.3	144.2
Asphalt	28.9	35.2	34.0	34.6	44.0	47.0	38.8	39.9	41.0
Lubes and Greases	16.9	15.9	16.0	16.1	16.3	16.4	17.4	18.5	19.5
Petrochemical Feedstock	103.4	99.9	105.6	104.1	106.7	109.0	121.0	132.5	145.5
Refinery LPG	15.1	14.3	16.3	17.1	17.6	18.3	20.5	22.0	22.6
Other Products	91.5	94.0	93.4	95.8	99.1	102.9	114.8	124.0	133.1
Total Products [a]	1039.8	988.5	988.6	1016.1	1057.8	1101.6	1234.3	1327.2	1417.4

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-12 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Alternative Macro Case								
	Manitoba								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Motor Gasoline	47.9	48.3	47.5	42.3	42.3	43.3	45.0	47.8	49.5
Av. Turbo - Kerosene (Jet A-1)	5.4	4.9	4.0	4.9	5.2	5.4	5.9	6.1	6.1
- Naphtha (Jet B)	1.4	1.1	0.6	1.1	1.2	1.3	1.4	1.4	1.4
- Total	6.8	6.1	4.5	6.0	6.4	6.7	7.3	7.5	7.5
Light Fuel and Kerosene	3.2	3.9	2.9	2.7	2.1	1.6	0.7	0.7	0.7
Diesel Fuel Oil	33.9	30.0	29.6	30.1	30.4	30.9	32.7	34.9	36.7
Heavy Fuel Oil	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.6	3.0
Asphalt	2.2	2.9	2.8	2.9	3.5	3.8	3.2	3.3	3.3
Lubes and Greases	1.2	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
Petrochemical Feedstock	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Refinery LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Products	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Total Products [a]	98.2	94.8	91.0	87.8	88.6	90.1	93.0	98.6	102.8

Saskatchewan									
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Motor Gasoline	56.7	57.1	57.2	55.5	56.4	58.3	60.4	63.4	65.7
Av. Turbo - Kerosene (Jet A-1)	1.9	1.7	1.4	1.7	1.8	1.8	2.0	2.1	2.2
- Naphtha (Jet B)	1.3	1.2	0.2	1.0	1.1	1.1	1.2	1.3	1.3
- Total	3.2	2.8	1.6	2.7	2.9	3.0	3.3	3.4	3.5
Light Fuel and Kerosene	4.1	2.9	3.3	3.1	2.9	2.6	1.0	0.5	0.4
Diesel Fuel Oil	46.6	46.6	46.3	45.8	46.1	46.5	48.3	50.2	52.1
Heavy Fuel Oil	3.4	3.4	3.5	3.6	3.6	3.7	3.8	4.0	4.3
Asphalt	9.2	6.0	5.7	5.8	7.0	7.4	6.3	6.3	6.4
Lubes and Greases	1.7	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7
Petrochemical Feedstock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refinery LPG	1.5	1.3	2.3	2.2	2.4	2.5	2.6	2.6	2.6
Other Products	5.9	4.6	4.7	4.8	4.8	4.9	5.4	6.0	6.5
Total Products [a]	132.9	126.5	126.5	125.4	128.1	130.7	133.1	138.4	143.6

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Table A4-12 (Continued)

Total Petroleum Product Demand - Canada and Regions

(Petajoules)	Alternative Macro Case								
	Alberta								
	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Motor Gasoline	131.7	115.5	122.5	131.2	127.9	127.0	129.9	144.7	158.0
Av. Turbo - Kerosene (Jet A-1)	18.3	16.3	14.1	16.5	17.8	18.6	21.4	23.3	25.1
- Naphtha (Jet B)	6.2	4.5	2.1	5.0	5.3	5.5	5.9	6.0	6.0
- Total	24.5	20.8	16.1	21.5	23.1	24.1	27.3	29.3	31.1
Light Fuel and Kerosene	3.3	2.7	2.2	2.2	2.0	1.8	2.0	2.3	2.6
Diesel Fuel Oil	113.5	105.6	102.0	104.2	105.2	107.4	117.0	127.9	139.0
Heavy Fuel Oil	1.3	1.4	1.1	1.1	1.1	1.2	1.6	1.9	2.1
Asphalt	24.0	21.9	21.5	21.8	26.2	27.6	24.0	24.6	25.2
Lubes and Greases	4.4	4.0	4.1	4.1	4.1	4.2	4.4	4.6	4.8
Petrochemical Feedstock	10.0	11.7	11.7	11.8	12.2	12.4	13.8	15.9	17.9
Refinery LPG	19.4	21.0	19.6	20.8	22.5	23.7	24.2	24.4	24.4
Other Products	73.9	71.7	72.1	75.0	76.4	78.7	88.1	98.8	109.2
Total Products [a]	406.5	376.7	373.2	394.1	401.1	408.5	432.7	474.8	514.8

British Columbia And Territories

	1990	1991(1)	1992	1993	1994	1995	2000	2005	2010
Aviation Gasoline	1.5	1.2	1.1	1.2	1.3	1.3	1.6	1.5	1.5
Motor Gasoline	125.6	126.1	131.0	135.5	133.3	133.3	145.0	161.1	178.7
Av. Turbo - Kerosene (Jet A-1)	31.8	32.1	30.1	32.8	35.4	37.3	44.0	49.2	54.5
- Naphtha (Jet B)	4.7	4.2	4.4	4.1	4.4	4.5	4.9	5.0	5.1
- Total	36.5	36.2	34.5	36.9	39.8	41.8	48.9	54.2	59.6
Light Fuel and Kerosene	24.0	23.1	20.6	19.7	18.8	17.5	10.9	5.7	3.8
Diesel Fuel Oil	108.1	105.1	108.2	109.8	113.1	116.1	128.7	141.5	153.6
Heavy Fuel Oil	47.8	50.4	41.1	38.6	39.2	40.0	42.7	47.7	53.4
Asphalt	13.2	11.9	11.6	11.8	14.4	15.3	13.0	13.3	13.6
Lubes and Greases	4.3	4.1	4.1	4.2	4.2	4.3	4.5	4.7	4.9
Petrochemical Feedstock	1.2	1.0	1.0	1.0	0.5	0.5	0.6	0.7	0.7
Refinery LPG	4.1	3.2	5.9	4.9	4.0	2.6	2.7	2.7	2.7
Other Products	24.3	23.4	23.4	23.7	24.1	24.5	26.2	28.5	31.0
Total Products [a]	390.6	385.9	382.6	387.3	392.9	397.3	424.8	461.7	503.7

(1) 1991 last year of actual data.

[a] Fuels used to generate electricity exports are not included.

Appendix 5 - Electricity

Table A5-1

Generating Capacity by Technology and Fuel Type - Canada

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60772	61250	62122	63314	64121	66783	71812	78460
Nuclear	12845	14092	15488	15488	15488	14719	14719	14203
Steam	24284	23776	23499	22736	22235	23584	26437	26428
of which: - Coal Bituminous	3613	3613	3778	3695	3492	3512	3475	3330
- Coal Subbituminous	5173	5173	5173	5559	5559	5873	6435	8095
- Coal Lignite	2318	2590	2529	2529	2529	2397	2397	2432
- Coal Imported	6248	5468	5056	5056	4561	4561	6691	5994
- Natural Gas	1650	1650	1679	1693	1693	1803	1653	1000
- Heavy Fuel Oil	5169	5169	5171	4101	3998	5065	5163	4954
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other [c]	75	75	75	65	365	365	615	615
Combined Cycle	422	645	844	844	1020	2514	3492	5796
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	2304
- Natural Gas	422	645	844	844	1020	2345	3293	3293
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	169	199	199
Combustion Turbines	2656	2979	3178	3191	3225	4272	6040	6729
of which: - Natural Gas	757	953	1174	1187	1221	1968	3486	4025
- Light Fuel Oil	1004	1004	1004	1004	1004	1204	1204	1254
- Diesel	895	1022	1000	1000	1000	1100	1350	1450
Internal Combustion	542	542	542	542	542	542	542	556
of which: - Natural Gas	38	38	38	38	38	38	38	38
- Heavy Fuel Oil	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	493	493	493	493	493	493	493	507
Alternatives & Renewables	883	880	931	968	1060	1361	1370	1370
Generating Capacity	102404	104164	106604	107083	107691	113775	124412	133542
Firm Imports	475	475	475	475	775	1595	2265	2275
Capacity Available	102879	104639	107079	107558	108466	115370	126677	135817
Domestic Peak Demand	86663	87740	89092	91672	93541	103295	112884	122625
Firm Exports	1311	1526	1453	1402	1236	1086	586	536
System Peak Demand	87974	89266	90545	93074	94777	104381	113470	123161

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Newfoundland and Labrador

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	6603	6603	6603	6603	6609	6685	6715	6748
Nuclear	0	0	0	0	0	0	0	0
Steam	504	504	504	504	504	474	617	617
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	466	466	466	466	466	466	609	609
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	145	145	145
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	145	145	145
Combustion Turbines	168	195	195	195	195	395	395	445
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	118	118	118	118	118	318	318	368
- Diesel	50	77	77	77	77	77	77	77
Internal Combustion	77	77	77	77	77	77	77	77
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	5	5	5	5	5	55	55	55
Generating Capacity	7357	7384	7384	7384	7390	7831	8004	8087
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	7357	7384	7384	7384	7390	7831	8004	8087
Domestic Peak Demand	1931	2032	2080	2057	2115	2521	2741	2874
Firm Sales	4903	4903	4903	4903	4903	4903	4903	4903
of which: - Interprovincial	4903	4903	4903	4903	4903	4903	4903	4903
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	6834	6935	6983	6960	7018	7424	7644	7777

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Prince Edward Island

(Megawatts)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro	0	0	0	0	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0
Steam	66	66	66	66	66	63	63	63
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	66	66	66	66	66	63	63	63
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	24	54	54
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	24	54	54
Combustion Turbines	39	39	39	39	39	39	39	39
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	39	39	39	39	39	39	39	39
Internal Combustion	11	11	11	11	11	11	11	11
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil [b]	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	116	116	116	116	116	137	167	167
Firm Purchases	43	43	43	43	43	43	43	53
of which: - Interprovincial	43	43	43	43	43	43	43	53
- Imports	0	0	0	0	0	0	0	0
Capacity Available	159	159	159	159	159	180	210	220
Domestic Peak Demand	137	139	140	147	148	161	180	198
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	137	139	140	147	148	161	180	198

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes Summerside generating station.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Nova Scotia

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	390	390	390	390	394	394	394	394
Nuclear	0	0	0	0	0	0	0	0
Steam	1539	1539	1704	1664	1664	1684	1704	1704
of which: - Coal Bituminous	1177	1177	1342	1302	1302	1322	1342	1342
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	362	362	362	362	362	362	362	362
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	225	225	225	225	225	225	275	375
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	225	225	225	225	225	225	275	375
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	18	18	18	18	64	64	64	64
Generating Capacity	2172	2172	2337	2297	2347	2367	2437	2537
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	2172	2172	2337	2297	2347	2367	2437	2537
Domestic Peak Demand	1858	1873	1891	1928	1967	2169	2249	2347
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	1858	1873	1891	1928	1967	2169	2249	2347

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - New Brunswick

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	931	931	935	935	935	935	935	935
Nuclear	639	639	639	639	639	639	639	639
Steam	1746	1746	2191	2138	2132	2132	2030	2264
of which: - Coal Bituminous	303	303	303	260	57	57	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	443	443	443	443	443	886
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	1433	1433	1435	1435	1332	1332	1287	1078
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	10	10	10	0	300	300	300	300
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	456	556	534	534	534	634	834	834
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	456	556	534	534	534	634	834	834
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	87	87	87	87	87	137	137	137
Generating Capacity	3859	3959	4386	4333	4327	4477	4575	4809
Firm Purchases	105	105	105	5	0	0	0	0
of which: - Interprovincial	105	105	105	5	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	3964	4064	4491	4338	4327	4477	4575	4809
Domestic Peak Demand	2906	2975	2927	3054	3106	3476	3653	3763
Firm Sales	560	560	560	509	493	393	293	303
of which: - Interprovincial	443	443	443	443	443	343	243	253
- Exports	117	117	117	66	50	50	50	50
System Peak Demand	3466	3535	3487	3563	3599	3869	3946	4066

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Atlantic

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	7924	7924	7928	7928	7938	8014	8044	8077
Nuclear	639	639	639	639	639	639	639	639
Steam	3855	3855	4465	4372	4366	4353	4414	4648
of which: - Coal Bituminous	1480	1480	1645	1562	1359	1379	1342	1342
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	443	443	443	443	443	886
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	2327	2327	2329	2329	2226	2223	2321	2112
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other [c]	10	10	10	0	300	300	300	300
Combined Cycle	0	0	0	0	0	169	199	199
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	169	199	199
Combustion Turbines	888	1015	993	993	993	1293	1543	1693
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	118	118	118	118	118	318	318	368
- Diesel	770	897	875	875	875	975	1225	1325
Internal Combustion	88	88	88	88	88	88	88	88
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	110	110	110	110	156	256	256	256
Generating Capacity	13504	13631	14223	14130	14180	14812	15183	15600
Firm Purchases	105	105	105	5	0	0	0	0
of which: - Interprovincial	105	105	105	5	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	13609	13736	14328	14135	14180	14812	15183	15600
Domestic Peak Demand	6832	7019	7038	7186	7336	8327	8823	9182
Firm Sales	5420	5420	5420	5369	5353	5253	5153	5153
of which: - Interprovincial	5303	5303	5303	5303	5303	5203	5103	5103
- Exports	117	117	117	66	50	50	50	50
System Peak Demand	12252	12439	12458	12555	12689	13580	13976	14335

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Québec

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	28394	28468	29331	30489	31217	33159	37122	40922
Nuclear	685	685	685	685	685	685	685	685
Steam	623	623	623	623	623	623	623	623
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	8	8	8	8	8	8	8	8
- Heavy Fuel Oil	615	615	615	615	615	615	615	615
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	17	77	77	213	555	555	555
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	17	77	77	213	555	555	555
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	442	638	834	834	834	834	834	834
of which: - Natural Gas	0	196	392	392	392	392	392	392
- Light Fuel Oil	435	435	435	435	435	435	435	435
- Diesel	7	7	7	7	7	7	7	7
Internal Combustion	126	126	126	126	126	126	126	126
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	126	126	126	126	126	126	126	126
Alternatives & Renewables	5	5	5	5	10	10	10	10
Generating Capacity	30275	30562	31681	32839	33708	35992	39955	43755
Firm Purchases	5778	5778	5778	5778	5778	5628	5528	5528
of which: - Interprovincial	5303	5303	5303	5303	5303	5203	5103	5103
- Imports	475	475	475	475	475	425	425	425
Capacity Available	36053	36340	37459	38617	39486	41620	45483	49283
Domestic Peak Demand	33637	33737	34580	35621	35663	39279	42899	47097
Firm Sales	673	673	673	573	568	362	362	362
of which: - Interprovincial	161	161	161	61	56	0	0	0
- Exports	512	512	512	512	512	362	362	362
System Peak Demand	34310	34410	35253	36194	36231	39641	43261	47459

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Ontario

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	7440	7440	7440	7440	7440	7500	7500	8970
Nuclear	11521	12768	14164	14164	14164	13395	13395	12879
Steam	11176	10396	9566	8496	8001	9071	11201	10061
of which: - Coal Bituminous	1988	1988	1988	1988	1988	1988	1988	1988
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	525	525	525	525	525	525	525	525
- Coal Imported	6248	5468	4613	4613	4118	4118	6248	5108
- Natural Gas	275	275	300	300	300	300	300	300
- Heavy Fuel Oil	2140	2140	2140	1070	1070	2140	2140	2140
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	274	480	480	480	480	915	1395	3699
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	2304
- Natural Gas	274	480	480	480	480	915	1395	1395
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	644	644	669	682	690	1362	2370	2706
of which: - Natural Gas	181	181	206	219	227	899	1907	2243
- Light Fuel Oil	451	451	451	451	451	451	451	451
- Diesel	12	12	12	12	12	12	12	12
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	136	133	133	133	133	213	213	213
Generating Capacity	31191	31861	32452	31395	30908	32456	36074	38528
Firm Purchases	256	256	56	56	56	200	0	0
of which: - Interprovincial	256	256	56	56	56	200	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	31447	32117	32508	31451	30964	32656	36074	38528
Domestic Peak Demand	24008	23388	23476	24478	25350	27703	30163	32581
Firm Sales	73	73	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	73	73	0	0	0	0	0	0
System Peak Demand	24081	23461	23476	24478	25350	27703	30163	32581

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Manitoba

(Megawatts)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	4434	4826	4826	4826	4844	4853	4853	5023
Nuclear	0	0	0	0	0	0	0	0
Steam	373	373	373	373	373	241	241	4
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	369	369	369	369	369	237	237	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	4	4	4	4	4	4	4	4
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	3	3	3	3	3	3	3
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	3	3	3	3	3	3	3	3
Internal Combustion	15	15	15	15	15	15	15	15
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	15	15	15	15	15	15	15	15
Alternatives & Renewables	23	23	23	23	23	23	23	23
Generating Capacity	4848	5240	5240	5240	5258	5135	5135	5068
Firm Purchases	0	0	0	0	300	500	500	500
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	300	500	500	500
Capacity Available	4848	5240	5240	5240	5558	5635	5635	5568
Domestic Peak Demand	3493	3572	3724	3703	3787	3994	4330	4651
Firm Sales	700	700	500	500	500	700	0	0
of which: - Interprovincial	200	200	0	0	0	200	0	0
- Exports	500	500	500	500	500	500	0	0
System Peak Demand	4193	4272	4224	4203	4287	4694	4330	4651

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Saskatchewan

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	847	847	847	847	847	847	847	847
Nuclear	0	0	0	0	0	0	0	0
Steam	1701	1973	1912	1912	1912	1913	1913	2185
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	1424	1696	1635	1635	1635	1635	1635	1907
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	256	256	256	256	256	257	257	257
- Heavy Fuel Oil	21	21	21	21	21	21	21	21
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	40	90	90	90
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	40	90	90	90
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	137	137	137	137	137	197	307	307
of which: - Natural Gas	136	136	136	136	136	196	306	306
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	1	1	1	1	1	1	1	1
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	22	22	22	22	25	25	25	25
Generating Capacity	2707	2979	2918	2918	2961	3072	3182	3454
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	2707	2979	2918	2918	2961	3072	3182	3454
Domestic Peak Demand	2338	2577	2603	2615	2673	2829	2961	3106
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	2338	2577	2603	2615	2673	2829	2961	3106

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Alberta

(Megawatts)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	799	811	816	845	845	845	845	845
Nuclear	0	0	0	0	0	0	0	0
Steam	6399	6399	6403	6803	6803	7226	7888	8750
of which: - Coal Bituminous	145	145	145	145	145	145	145	0
- Coal Subbituminous	5173	5173	5173	5559	5559	5873	6435	8095
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1016	1016	1020	1034	1034	1143	993	340
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	65	65	65	65	65	65	315	315
Combined Cycle	148	148	182	182	182	212	212	212
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	148	148	182	182	182	212	212	212
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	374	374	374	374	400	415	815	1018
of which: - Natural Gas	374	374	374	374	400	415	815	1018
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	35	35	35	35	35	35	35	35
of which: - Natural Gas	12	12	12	12	12	12	12	12
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	23	23	23	23	23	23	23	23
Alternatives & Renewables	218	218	219	256	294	305	314	314
Generating Capacity	7973	7985	8029	8495	8559	9038	10109	11174
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	7973	7985	8029	8495	8559	9038	10109	11174
Domestic Peak Demand	6703	7107	7271	7357	7585	8589	9561	10448
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	6703	7107	7271	7357	7585	8589	9561	10448

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - British Columbia

(Megawatts)								
	Current Tech Case ^a							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	10813	10813	10813	10818	10869	11444	12480	13655
Nuclear	0	0	0	0	0	0	0	0
Steam	157	157	157	157	157	157	157	157
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas [c]	91	91	91	91	91	91	91	91
- Heavy Fuel Oil	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	105	105	105	573	1041	1041
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	105	105	105	573	1041	1041
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	146	146	146	146	146	146	146	146
of which: - Natural Gas	46	46	46	46	46	46	46	46
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	100	100	100	100	100	100	100	100
Internal Combustion	103	103	103	103	103	103	103	103
of which: - Natural Gas	26	26	26	26	26	26	26	26
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	369	369	419	419	419	529	529	529
Generating Capacity	11588	11588	11743	11748	11799	12952	14456	15631
Firm Purchases	0	0	0	0	0	670	1340	1350
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	670	1340	1350
Capacity Available	11588	11588	11743	11748	11799	13622	15796	16981
Domestic Peak Demand	9456	10138	10221	10529	10961	12371	13926	15319
Firm Sales	109	324	324	324	174	174	174	124
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	109	324	324	324	174	174	174	124
System Peak Demand	9565	10462	10545	10853	11135	12545	14100	15443

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] The Burrard generating station was assumed to contribute only 40 MW.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Yukon

(Megawatts)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	75	75	75	75	75	75	75	75
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	53	53	53	53	53	53	53	53
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	53	53	53	53	53	53	53	53
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	128	128	128	128	128	128	128	128
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	128	128	128	128	128	128	128	128
Domestic Peak Demand	88	94	68	70	71	80	90	100
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	88	94	68	70	71	80	90	100

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Northwest Territories

(Megawatts)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	46	46	46	46	46	46	46	46
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	22	22	22	22	22	22	22	22
of which: - Natural Gas	20	20	20	20	20	20	20	20
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	2	2	2	2	2	2	2	2
Internal Combustion	122	122	122	122	122	122	122	136
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	122	122	122	122	122	122	122	136
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	190	190	190	190	190	190	190	204
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	190	190	190	190	190	190	190	204
Domestic Peak Demand	108	108	111	113	115	123	131	141
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	108	108	111	113	115	123	131	141

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - British Columbia, Yukon and Northwest Territories

(Megawatts)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	10934	10934	10934	10939	10990	11565	12601	13776
Nuclear	0	0	0	0	0	0	0	0
Steam	157	157	157	157	157	157	157	157
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	91	91	91	91	91	91	91	91
- Heavy Fuel Oil	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	105	105	105	573	1041	1041
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	105	105	105	573	1041	1041
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	168	168	168	168	168	168	168	168
of which: - Natural Gas	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	102	102	102	102	102	102	102	102
Internal Combustion	278	278	278	278	278	278	278	292
of which: - Natural Gas	26	26	26	26	26	26	26	26
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	252	252	252	252	252	252	252	266
Alternatives & Renewables	369	369	419	419	419	529	529	529
Generating Capacity	11906	11906	12061	12066	12117	13270	14774	15963
Firm Purchases	0	0	0	0	0	670	1340	1350
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	670	1340	1350
Capacity Available	11906	11906	12061	12066	12117	13940	16114	17313
Domestic Peak Demand	9652	10340	10400	10712	11147	12574	14147	15560
Firm Sales	109	324	324	324	174	174	174	124
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	109	324	324	324	174	174	174	124
System Peak Demand	9761	10664	10724	11036	11321	12748	14321	15684

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Canada

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60772	61250	62122	63314	64121	65271	70332	73680
Nuclear	12845	14092	15488	15488	15488	14719	14719	14203
Steam	24284	23776	23499	22736	22235	23464	26067	24676
of which: - Coal Bituminous	3613	3613	3778	3695	3492	3512	3475	3330
- Coal Subbituminous	5173	5173	5173	5559	5559	5503	6065	6615
- Coal Lignite	2318	2590	2529	2529	2529	2397	2397	2160
- Coal Imported	6248	5468	5056	5056	4561	4561	6691	5994
- Natural Gas	1650	1650	1679	1693	1693	1803	1653	1000
- Heavy Fuel Oil	5169	5169	5171	4101	3998	5065	5163	4954
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other [c]	75	75	75	65	365	615	615	615
Combined Cycle	422	645	844	844	1020	2754	5378	10633
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	422	645	844	844	1020	2585	5179	10434
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	169	199	199
Combustion Turbines	2656	2979	3178	3191	3225	4898	5840	6529
of which: - Natural Gas	757	953	1174	1187	1221	2594	3286	3825
- Light Fuel Oil	1004	1004	1004	1004	1004	1204	1204	1254
- Diesel	895	1022	1000	1000	1000	1100	1350	1450
Internal Combustion	542	542	542	542	542	542	542	556
of which: - Natural Gas	38	38	38	38	38	38	38	38
- Heavy Fuel Oil	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	493	493	493	493	493	493	493	507
Alternatives & Renewables	883	880	931	968	1060	1361	1370	1370
Generating Capacity	102404	104164	106604	107083	107691	113009	124248	131647
Firm Imports	475	475	475	475	775	1595	2265	2275
Capacity Available	102879	104639	107079	107558	108466	114604	126513	133922
Domestic Peak Demand	86663	87740	89092	91676	93470	103475	113209	123118
Firm Exports	1311	1526	1453	1402	1236	1086	586	536
System Peak Demand	87974	89266	90545	93078	94706	104561	113795	123654

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Newfoundland and Labrador

(Megawatts)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	6603	6603	6603	6603	6609	6685	6715	6748
Nuclear	0	0	0	0	0	0	0	0
Steam	504	504	504	504	504	474	617	617
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	466	466	466	466	466	466	609	609
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	145	145	145
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	145	145	145
Combustion Turbines	168	195	195	195	195	395	395	445
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	118	118	118	118	118	318	318	368
- Diesel	50	77	77	77	77	77	77	77
Internal Combustion	77	77	77	77	77	77	77	77
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	5	5	5	5	5	55	55	55
Generating Capacity	7357	7384	7384	7384	7390	7831	8004	8087
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	7357	7384	7384	7384	7390	7831	8004	8087
Domestic Peak Demand	1931	2032	2080	2057	2115	2521	2741	2874
Firm Sales	4903	4903	4903	4903	4903	4903	4903	4903
of which: - Interprovincial	4903	4903	4903	4903	4903	4903	4903	4903
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	6834	6935	6983	6960	7018	7424	7644	7777

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Prince Edward Island

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro	0	0	0	0	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0
Steam	66	66	66	66	66	63	63	63
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	66	66	66	66	66	63	63	63
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	24	54	54
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	24	54	54
Combustion Turbines	39	39	39	39	39	39	39	39
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	39	39	39	39	39	39	39	39
Internal Combustion	11	11	11	11	11	11	11	11
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil [b]	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	116	116	116	116	116	137	167	167
Firm Purchases	43	43	43	43	43	43	43	53
of which: - Interprovincial	43	43	43	43	43	43	43	53
- Imports	0	0	0	0	0	0	0	0
Capacity Available	159	159	159	159	159	180	210	220
Domestic Peak Demand	137	139	140	147	148	161	180	198
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	137	139	140	147	148	161	180	198

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes Summerside generating station.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Nova Scotia

(Megawatts)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	390	390	390	390	394	394	394	394
Nuclear	0	0	0	0	0	0	0	0
Steam	1539	1539	1704	1664	1664	1684	1704	1704
of which: - Coal Bituminous	1177	1177	1342	1302	1302	1322	1342	1342
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	362	362	362	362	362	362	362	362
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	225	225	225	225	225	225	275	375
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	225	225	225	225	225	225	275	375
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	18	18	18	18	64	64	64	64
Generating Capacity	2172	2172	2337	2297	2347	2367	2437	2537
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	2172	2172	2337	2297	2347	2367	2437	2537
Domestic Peak Demand	1858	1873	1891	1928	1967	2169	2249	2347
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	1858	1873	1891	1928	1967	2169	2249	2347

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - New Brunswick

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	931	931	935	935	935	935	935	935
Nuclear	639	639	639	639	639	639	639	639
Steam	1746	1746	2191	2138	2132	2132	2030	2264
of which: - Coal Bituminous	303	303	303	260	57	57	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	443	443	443	443	443	886
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	1433	1433	1435	1435	1332	1332	1287	1078
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	10	10	10	0	300	300	300	300
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	456	556	534	534	534	634	834	834
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	456	556	534	534	534	634	834	834
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	87	87	87	87	87	137	137	137
Generating Capacity	3859	3959	4386	4333	4327	4477	4575	4809
Firm Purchases	105	105	105	5	0	0	0	0
of which: - Interprovincial	105	105	105	5	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	3964	4064	4491	4338	4327	4477	4575	4809
Domestic Peak Demand	2906	2975	2927	3054	3106	3476	3653	3763
Firm Sales	560	560	560	509	493	393	293	303
of which: - Interprovincial	443	443	443	443	443	343	243	253
- Exports	117	117	117	66	50	50	50	50
System Peak Demand	3466	3535	3487	3563	3599	3869	3946	4066

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Atlantic

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	7924	7924	7928	7928	7938	8014	8044	8077
Nuclear	639	639	639	639	639	639	639	639
Steam	3855	3855	4465	4372	4366	4353	4414	4648
of which: - Coal Bituminous	1480	1480	1645	1562	1359	1379	1342	1342
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	443	443	443	443	443	886
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	2327	2327	2329	2329	2226	2223	2321	2112
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other [c]	10	10	10	0	300	300	300	300
Combined Cycle	0	0	0	0	0	169	199	199
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	169	199	199
Combustion Turbines	888	1015	993	993	993	1293	1543	1693
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	118	118	118	118	118	318	318	368
- Diesel	770	897	875	875	875	975	1225	1325
Internal Combustion	88	88	88	88	88	88	88	88
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	110	110	110	110	156	256	256	256
Generating Capacity	13504	13631	14223	14130	14180	14812	15183	15600
Firm Purchases	105	105	105	5	0	0	0	0
of which: - Interprovincial	105	105	105	5	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	13609	13736	14328	14135	14180	14812	15183	15600
Domestic Peak Demand	6832	7019	7038	7186	7336	8327	8823	9182
Firm Sales	5420	5420	5420	5369	5353	5253	5153	5153
of which: - Interprovincial	5303	5303	5303	5303	5303	5203	5103	5103
- Exports	117	117	117	66	50	50	50	50
System Peak Demand	12252	12439	12458	12555	12689	13580	13976	14335

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Québec

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	28394	28468	29331	30489	31217	31647	35642	37487
Nuclear	685	685	685	685	685	685	685	685
Steam	623	623	623	623	623	623	623	623
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	8	8	8	8	8	8	8	8
- Heavy Fuel Oil	615	615	615	615	615	615	615	615
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	17	77	77	213	555	1521	2487
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	17	77	77	213	555	1521	2487
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	442	638	834	834	834	1510	834	834
of which: - Natural Gas	0	196	392	392	392	1068	392	392
- Light Fuel Oil	435	435	435	435	435	435	435	435
- Diesel	7	7	7	7	7	7	7	7
Internal Combustion	126	126	126	126	126	126	126	126
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	126	126	126	126	126	126	126	126
Alternatives & Renewables	5	5	5	5	10	10	10	10
Generating Capacity	30275	30562	31681	32839	33708	35156	39441	42252
Firm Purchases	5778	5778	5778	5778	5778	5628	5528	5528
of which: - Interprovincial	5303	5303	5303	5303	5303	5203	5103	5103
- Imports	475	475	475	475	475	425	425	425
Capacity Available	36053	36340	37459	38617	39486	40784	44969	47780
Domestic Peak Demand	33637	33737	34580	35630	35679	39333	42987	47227
Firm Sales	673	673	673	573	568	362	362	362
of which: - Interprovincial	161	161	161	61	56	0	0	0
- Exports	512	512	512	512	512	362	362	362
System Peak Demand	34310	34410	35253	36203	36247	39695	43349	47589

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Ontario

(Megawatts)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	7440	7440	7440	7440	7440	7500	7500	8970
Nuclear	11521	12768	14164	14164	14164	13395	13395	12879
Steam	11176	10396	9566	8496	8001	9071	11201	10061
of which: - Coal Bituminous	1988	1988	1988	1988	1988	1988	1988	1988
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	525	525	525	525	525	525	525	525
- Coal Imported	6248	5468	4613	4613	4118	4118	6248	5108
- Natural Gas	275	275	300	300	300	300	300	300
- Heavy Fuel Oil	2140	2140	2140	1070	1070	2140	2140	2140
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	274	480	480	480	480	915	1395	3588
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	274	480	480	480	480	915	1395	3588
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	644	644	669	682	690	1362	2370	2706
of which: - Natural Gas	181	181	206	219	227	899	1907	2243
- Light Fuel Oil	451	451	451	451	451	451	451	451
- Diesel	12	12	12	12	12	12	12	12
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	136	133	133	133	133	213	213	213
Generating Capacity	31191	31861	32452	31395	30908	32456	36074	38417
Firm Purchases	256	256	56	56	56	200	0	0
of which: - Interprovincial	256	256	56	56	56	200	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	31447	32117	32508	31451	30964	32656	36074	38417
Domestic Peak Demand	24008	23388	23476	24479	25260	27761	30268	32739
Firm Sales	73	73	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	73	73	0	0	0	0	0	0
System Peak Demand	24081	23461	23476	24479	25260	27761	30268	32739

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Manitoba

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	4434	4826	4826	4826	4844	4853	4853	4853
Nuclear	0	0	0	0	0	0	0	0
Steam	373	373	373	373	373	241	241	4
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	369	369	369	369	369	237	237	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	4	4	4	4	4	4	4	4
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	200
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	200
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	3	3	3	3	3	3	3
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	3	3	3	3	3	3	3	3
Internal Combustion	15	15	15	15	15	15	15	15
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	15	15	15	15	15	15	15	15
Alternatives & Renewables	23	23	23	23	23	23	23	23
Generating Capacity	4848	5240	5240	5240	5258	5135	5135	5098
Firm Purchases	0	0	0	0	300	500	500	500
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	300	500	500	500
Capacity Available	4848	5240	5240	5240	5558	5635	5635	5598
Domestic Peak Demand	3493	3572	3724	3699	3784	4002	4347	4681
Firm Sales	700	700	500	500	500	700	0	0
of which: - Interprovincial	200	200	0	0	0	200	0	0
- Exports	500	500	500	500	500	500	0	0
System Peak Demand	4193	4272	4224	4199	4284	4702	4347	4681

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Saskatchewan

(Megawatts)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	847	847	847	847	847	847	847	847
Nuclear	0	0	0	0	0	0	0	0
Steam	1701	1973	1912	1912	1912	1913	1913	1913
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	1424	1696	1635	1635	1635	1635	1635	1635
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	256	256	256	256	256	257	257	257
- Heavy Fuel Oil	21	21	21	21	21	21	21	21
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	40	90	290	290
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	40	90	290	290
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	137	137	137	137	137	147	307	307
of which: - Natural Gas	136	136	136	136	136	146	306	306
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	1	1	1	1	1	1	1	1
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	22	22	22	22	25	25	25	25
Generating Capacity	2707	2979	2918	2918	2961	3022	3382	3382
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	2707	2979	2918	2918	2961	3022	3382	3382
Domestic Peak Demand	2338	2577	2603	2615	2674	2840	2981	3135
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	2338	2577	2603	2615	2674	2840	2981	3135

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Alberta

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	799	811	816	845	845	845	845	845
Nuclear	0	0	0	0	0	0	0	0
Steam	6399	6399	6403	6803	6803	7106	7518	7270
of which: - Coal Bituminous	145	145	145	145	145	145	145	0
- Coal Subbituminous	5173	5173	5173	5559	5559	5503	6065	6615
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1016	1016	1020	1034	1034	1143	993	340
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	65	65	65	65	65	315	315	315
Combined Cycle	148	148	182	182	182	452	932	1892
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	148	148	182	182	182	452	932	1892
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	374	374	374	374	400	415	615	818
of which: - Natural Gas	374	374	374	374	400	415	615	818
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	35	35	35	35	35	35	35	35
of which: - Natural Gas	12	12	12	12	12	12	12	12
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	23	23	23	23	23	23	23	23
Alternatives & Renewables	218	218	219	256	294	305	314	314
Generating Capacity	7973	7985	8029	8495	8559	9158	10259	11174
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	7973	7985	8029	8495	8559	9158	10259	11174
Domestic Peak Demand	6703	7107	7271	7356	7587	8613	9604	10517
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	6703	7107	7271	7356	7587	8613	9604	10517

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - British Columbia

(Megawatts)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	10813	10813	10813	10818	10869	11444	12480	12480
Nuclear	0	0	0	0	0	0	0	0
Steam	157	157	157	157	157	157	157	157
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas [c]	91	91	91	91	91	91	91	91
- Heavy Fuel Oil	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	105	105	105	573	1041	1977
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	105	105	105	573	1041	1977
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	146	146	146	146	146	146	146	146
of which: - Natural Gas	46	46	46	46	46	46	46	46
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	100	100	100	100	100	100	100	100
Internal Combustion	103	103	103	103	103	103	103	103
of which: - Natural Gas	26	26	26	26	26	26	26	26
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	369	369	419	419	419	529	529	529
Generating Capacity	11588	11588	11743	11748	11799	12952	14456	15392
Firm Purchases	0	0	0	0	0	670	1340	1350
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	670	1340	1350
Capacity Available	11588	11588	11743	11748	11799	13622	15796	16742
Domestic Peak Demand	9456	10138	10221	10528	10964	12396	13978	15396
Firm Sales	109	324	324	324	174	174	174	124
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	109	324	324	324	174	174	174	124
System Peak Demand	9565	10462	10545	10852	11138	12570	14152	15520

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] The Burrard generating station was assumed to contribute only 40 MW.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Yukon

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	75	75	75	75	75	75	75	75
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	53	53	53	53	53	53	53	53
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	53	53	53	53	53	53	53	53
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	128	128	128	128	128	128	128	128
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	128	128	128	128	128	128	128	128
Domestic Peak Demand	88	94	68	70	71	80	90	100
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	88	94	68	70	71	80	90	100

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Northwest Territories

(Megawatts)

	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	46	46	46	46	46	46	46	46
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	22	22	22	22	22	22	22	22
of which: - Natural Gas	20	20	20	20	20	20	20	20
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	2	2	2	2	2	2	2	2
Internal Combustion	122	122	122	122	122	122	122	136
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	122	122	122	122	122	122	122	136
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	190	190	190	190	190	190	190	204
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	190	190	190	190	190	190	190	204
Domestic Peak Demand	108	108	111	113	115	123	131	141
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	108	108	111	113	115	123	131	141

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - British Columbia, Yukon and Northwest Territories

(Megawatts)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	10934	10934	10934	10939	10990	11565	12601	12601
Nuclear	0	0	0	0	0	0	0	0
Steam	157	157	157	157	157	157	157	157
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	91	91	91	91	91	91	91	91
- Heavy Fuel Oil	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	105	105	105	573	1041	1977
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	105	105	105	573	1041	1977
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	168	168	168	168	168	168	168	168
of which: - Natural Gas	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	102	102	102	102	102	102	102	102
Internal Combustion	278	278	278	278	278	278	278	292
of which: - Natural Gas	26	26	26	26	26	26	26	26
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	252	252	252	252	252	252	252	266
Alternatives & Renewables	369	369	419	419	419	529	529	529
Generating Capacity	11906	11906	12061	12066	12117	13270	14774	15724
Firm Purchases	0	0	0	0	0	670	1340	1350
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	670	1340	1350
Capacity Available	11906	11906	12061	12066	12117	13940	16114	17074
Domestic Peak Demand	9652	10340	10400	10711	11150	12599	14199	15637
Firm Sales	109	324	324	324	174	174	174	124
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	109	324	324	324	174	174	174	124
System Peak Demand	9761	10664	10724	11035	11324	12773	14373	15761

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Canada

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60772	61250	62122	63314	64121	66783	74526	81465
Nuclear	12845	14092	15488	15488	15488	14719	14719	14203
Steam	24284	23776	23499	22736	22235	23584	26294	25570
of which: - Coal Bituminous	3613	3613	3778	3695	3492	3512	3475	3330
- Coal Subbituminous	5173	5173	5173	5559	5559	5873	6435	8095
- Coal Lignite	2318	2590	2529	2529	2529	2397	2397	2160
- Coal Imported	6248	5468	5056	5056	4561	4561	6691	5551
- Natural Gas	1650	1650	1679	1693	1693	1803	1653	1000
- Heavy Fuel Oil	5169	5169	5171	4101	3998	5065	5020	4811
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other [c]	75	75	75	65	365	365	615	615
Combined Cycle	422	645	844	844	1020	2908	3856	3856
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	422	645	844	844	1020	2763	3711	3711
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	145	145	145
Combustion Turbines	2656	2979	3178	3191	3225	4222	5890	6093
of which: - Natural Gas	757	953	1174	1187	1221	1918	3336	3539
- Light Fuel Oil	1004	1004	1004	1004	1004	1204	1304	1304
- Diesel	895	1022	1000	1000	1000	1100	1250	1250
Internal Combustion	542	542	542	542	542	542	542	556
of which: - Natural Gas	38	38	38	38	38	38	38	38
- Heavy Fuel Oil	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	493	493	493	493	493	493	493	507
Alternatives & Renewables	883	880	931	968	1060	1361	1370	1370
Generating Capacity	102404	104164	106604	107083	107691	114119	127197	133113
Firm Imports	475	475	475	475	775	925	925	925
Capacity Available	102879	104639	107079	107558	108466	115044	128122	134038
Domestic Peak Demand	86663	87740	89092	91672	93541	103295	112884	122625
Firm Exports	1311	1526	1453	1402	1236	1086	586	536
System Peak Demand	87974	89266	90545	93074	94777	104381	113470	123161

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Newfoundland and Labrador

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	6603	6603	6603	6603	6609	6685	8979	9803
Nuclear	0	0	0	0	0	0	0	0
Steam	504	504	504	504	504	474	474	474
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	466	466	466	466	466	466	466	466
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	145	145	145
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	145	145	145
Combustion Turbines	168	195	195	195	195	395	495	495
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	118	118	118	118	118	318	418	418
- Diesel	50	77	77	77	77	77	77	77
Internal Combustion	77	77	77	77	77	77	77	77
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	5	5	5	5	5	55	55	55
Generating Capacity	7357	7384	7384	7384	7390	7831	10225	11049
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	7357	7384	7384	7384	7390	7831	10225	11049
Domestic Peak Demand	1931	2032	2080	2057	2115	2521	2741	2874
Firm Sales	4903	4903	4903	4903	4903	4903	5635	7191
of which: - Interprovincial	4903	4903	4903	4903	4903	4903	5635	7191
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	6834	6935	6983	6960	7018	7424	8376	10065

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Prince Edward Island

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro	0	0	0	0	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0
Steam	66	66	66	66	66	63	63	63
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	66	66	66	66	66	63	63	63
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	39	39	39	39	39	39	39	39
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	39	39	39	39	39	39	39	39
Internal Combustion	11	11	11	11	11	11	11	11
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil [b]	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	116	116	116	116	116	113	113	113
Firm Purchases	43	43	43	43	43	67	97	97
of which: - Interprovincial	43	43	43	43	43	67	97	97
- Imports	0	0	0	0	0	0	0	0
Capacity Available	159	159	159	159	159	180	210	210
Domestic Peak Demand	137	139	140	147	148	161	180	198
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	137	139	140	147	148	161	180	198

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes Summerside generating station.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Nova Scotia

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	390	390	390	390	394	394	394	394
Nuclear	0	0	0	0	0	0	0	0
Steam	1539	1539	1704	1664	1664	1684	1704	1704
of which: - Coal Bituminous	1177	1177	1342	1302	1302	1322	1342	1342
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	362	362	362	362	362	362	362	362
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	225	225	225	225	225	225	275	275
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	225	225	225	225	225	225	275	275
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	18	18	18	18	64	64	64	64
Generating Capacity	2172	2172	2337	2297	2347	2367	2437	2437
Firm Purchases	0	0	0	0	0	0	200	200
of which: - Interprovincial	0	0	0	0	0	0	200	200
- Imports	0	0	0	0	0	0	0	0
Capacity Available	2172	2172	2337	2297	2347	2367	2637	2637
Domestic Peak Demand	1858	1873	1891	1928	1967	2169	2249	2347
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	1858	1873	1891	1928	1967	2169	2249	2347

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - New Brunswick

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	931	931	935	935	935	935	935	935
Nuclear	639	639	639	639	639	639	639	639
Steam	1746	1746	2191	2138	2132	2132	2030	1821
of which: - Coal Bituminous	303	303	303	260	57	57	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	443	443	443	443	443	443
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	1433	1433	1435	1435	1332	1332	1287	1078
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	10	10	10	0	300	300	300	300
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	456	556	534	534	534	634	734	734
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	456	556	534	534	534	634	734	734
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	87	87	87	87	87	137	137	137
Generating Capacity	3859	3959	4386	4333	4327	4477	4475	4266
Firm Purchases	105	105	105	5	0	0	620	620
of which: - Interprovincial	105	105	105	5	0	0	620	620
- Imports	0	0	0	0	0	0	0	0
Capacity Available	3964	4064	4491	4338	4327	4477	5095	4886
Domestic Peak Demand	2906	2975	2927	3054	3106	3476	3653	3763
Firm Sales	560	560	560	509	493	417	547	547
of which: - Interprovincial	443	443	443	443	443	367	497	497
- Exports	117	117	117	66	50	50	50	50
System Peak Demand	3466	3535	3487	3563	3599	3893	4200	4310

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Atlantic

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	7924	7924	7928	7928	7938	8014	10308	11132
Nuclear	639	639	639	639	639	639	639	639
Steam	3855	3855	4465	4372	4366	4353	4271	4062
of which: - Coal Bituminous	1480	1480	1645	1562	1359	1379	1342	1342
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	443	443	443	443	443	443
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	2327	2327	2329	2329	2226	2223	2178	1969
- Light Fuel Oil	8	8	8	8	8	8	8	8
- Diesel	30	30	30	30	30	0	0	0
- Other [c]	10	10	10	0	300	300	300	300
Combined Cycle	0	0	0	0	0	145	145	145
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	145	145	145
Combustion Turbines	888	1015	993	993	993	1293	1543	1543
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	118	118	118	118	118	318	418	418
- Diesel	770	897	875	875	875	975	1125	1125
Internal Combustion	88	88	88	88	88	88	88	88
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	11	11	11	11	11	11	11	11
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	110	110	110	110	156	256	256	256
Generating Capacity	13504	13631	14223	14130	14180	14788	17250	17865
Firm Purchases	105	105	105	5	0	0	620	620
of which: - Interprovincial	105	105	105	5	0	0	620	620
- Imports	0	0	0	0	0	0	0	0
Capacity Available	13609	13736	14328	14135	14180	14788	17870	18485
Domestic Peak Demand	6832	7019	7038	7186	7336	8327	8823	9182
Firm Sales	5420	5420	5420	5369	5353	5253	5885	7441
of which: - Interprovincial	5303	5303	5303	5303	5303	5203	5835	7391
- Exports	117	117	117	66	50	50	50	50
System Peak Demand	12252	12439	12458	12555	12689	13580	14708	16623

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Québec

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	28394	28468	29331	30489	31217	33159	37122	40922
Nuclear	685	685	685	685	685	685	685	685
Steam	623	623	623	623	623	623	623	623
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	8	8	8	8	8	8	8	8
- Heavy Fuel Oil	615	615	615	615	615	615	615	615
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	17	77	77	213	555	555	555
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	17	77	77	213	555	555	555
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	442	638	834	834	834	834	834	834
of which: - Natural Gas	0	196	392	392	392	392	392	392
- Light Fuel Oil	435	435	435	435	435	435	435	435
- Diesel	7	7	7	7	7	7	7	7
Internal Combustion	126	126	126	126	126	126	126	126
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	126	126	126	126	126	126	126	126
Alternatives & Renewables	5	5	5	5	10	10	10	10
Generating Capacity	30275	30562	31681	32839	33708	35992	39955	43755
Firm Purchases	5778	5778	5778	5778	5778	5628	6260	7816
of which: - Interprovincial	5303	5303	5303	5303	5303	5203	5835	7391
- Imports	475	475	475	475	475	425	425	425
Capacity Available	36053	36340	37459	38617	39486	41620	46215	51571
Domestic Peak Demand	33637	33737	34580	35621	35663	39279	42899	47097
Firm Sales	673	673	673	573	568	362	1094	3650
of which: - Interprovincial	161	161	161	61	56	0	732	3288
- Exports	512	512	512	512	512	362	362	362
System Peak Demand	34310	34410	35253	36194	36231	39641	43993	50747

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Ontario

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	7440	7440	7440	7440	7440	7500	7500	7500
Nuclear	11521	12768	14164	14164	14164	13395	13395	12879
Steam	11176	10396	9566	8496	8001	9071	11201	10061
of which: - Coal Bituminous	1988	1988	1988	1988	1988	1988	1988	1988
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	525	525	525	525	525	525	525	525
- Coal Imported	6248	5468	4613	4613	4118	4118	6248	5108
- Natural Gas	275	275	300	300	300	300	300	300
- Heavy Fuel Oil	2140	2140	2140	1070	1070	2140	2140	2140
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	274	480	480	480	480	915	1395	1395
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	274	480	480	480	480	915	1395	1395
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	644	644	669	682	690	1362	2370	2370
of which: - Natural Gas	181	181	206	219	227	899	1907	1907
- Light Fuel Oil	451	451	451	451	451	451	451	451
- Diesel	12	12	12	12	12	12	12	12
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	136	133	133	133	133	213	213	213
Generating Capacity	31191	31861	32452	31395	30908	32456	36074	34418
Firm Purchases	256	256	56	56	56	200	112	3268
of which: - Interprovincial	256	256	56	56	56	200	112	3268
- Imports	0	0	0	0	0	0	0	0
Capacity Available	31447	32117	32508	31451	30964	32656	36186	37686
Domestic Peak Demand	24008	23388	23476	24478	25350	27703	30163	32581
Firm Sales	73	73	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	73	73	0	0	0	0	0	0
System Peak Demand	24081	23461	23476	24478	25350	27703	30163	32581

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Manitoba

(Megawatts)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	4434	4826	4826	4826	4844	4853	4853	6083
Nuclear	0	0	0	0	0	0	0	0
Steam	373	373	373	373	373	241	241	4
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	369	369	369	369	369	237	237	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	4	4	4	4	4	4	4	4
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	3	3	3	3	3	3	3
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	3	3	3	3	3	3	3	3
Internal Combustion	15	15	15	15	15	15	15	15
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	15	15	15	15	15	15	15	15
Alternatives & Renewables	23	23	23	23	23	23	23	23
Generating Capacity	4848	5240	5240	5240	5258	5135	5135	6128
Firm Purchases	0	0	0	0	350	550	550	550
of which: - Interprovincial	0	0	0	0	50	50	50	50
- Imports	0	0	0	0	300	500	500	500
Capacity Available	4848	5240	5240	5240	5608	5685	5685	6678
Domestic Peak Demand	3493	3572	3724	3703	3787	3994	4330	4651
Firm Sales	700	700	500	500	550	750	175	925
of which: - Interprovincial	200	200	0	0	50	250	175	925
- Exports	500	500	500	500	500	500	0	0
System Peak Demand	4193	4272	4224	4203	4337	4744	4505	5576

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Saskatchewan

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	847	847	847	847	847	847	847	847
Nuclear	0	0	0	0	0	0	0	0
Steam	1701	1973	1912	1912	1912	1913	1913	1913
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	1424	1696	1635	1635	1635	1635	1635	1635
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	256	256	256	256	256	257	257	257
- Heavy Fuel Oil	21	21	21	21	21	21	21	21
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	40	40	40	40
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	40	40	40	40
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	137	137	137	137	137	147	157	157
of which: - Natural Gas	136	136	136	136	136	146	156	156
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	1	1	1	1	1	1	1	1
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	22	22	22	22	25	25	25	25
Generating Capacity	2707	2979	2918	2918	2961	2972	2982	2982
Firm Purchases	0	0	0	0	50	50	175	325
of which: - Interprovincial	0	0	0	0	50	50	175	325
- Imports	0	0	0	0	0	0	0	0
Capacity Available	2707	2979	2918	2918	3011	3022	3157	3307
Domestic Peak Demand	2338	2577	2603	2615	2673	2829	2961	3106
Firm Sales	0	0	0	0	50	50	50	50
of which: - Interprovincial	0	0	0	0	50	50	50	50
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	2338	2577	2603	2615	2723	2879	3011	3156

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Alberta

(Megawatts)

Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	799	811	816	845	845	845	845	845
Nuclear	0	0	0	0	0	0	0	0
Steam	6399	6399	6403	6803	6803	7226	7888	8750
of which: - Coal Bituminous	145	145	145	145	145	145	145	0
- Coal Subbituminous	5173	5173	5173	5559	5559	5873	6435	8095
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1016	1016	1020	1034	1034	1143	993	340
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	65	65	65	65	65	65	315	315
Combined Cycle	148	148	182	182	182	212	212	212
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	148	148	182	182	182	212	212	212
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	374	374	374	374	400	415	815	1018
of which: - Natural Gas	374	374	374	374	400	415	815	1018
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	35	35	35	35	35	35	35	35
of which: - Natural Gas	12	12	12	12	12	12	12	12
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	23	23	23	23	23	23	23	23
Alternatives & Renewables	218	218	219	256	294	305	314	314
Generating Capacity	7973	7985	8029	8495	8559	9038	10109	11174
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	7973	7985	8029	8495	8559	9038	10109	11174
Domestic Peak Demand	6703	7107	7271	7357	7585	8589	9561	10448
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	6703	7107	7271	7357	7585	8589	9561	10448

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - British Columbia

(Megawatts)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	10813	10813	10813	10818	10869	11444	12930	14015
Nuclear	0	0	0	0	0	0	0	0
Steam	157	157	157	157	157	157	157	157
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas [c]	91	91	91	91	91	91	91	91
- Heavy Fuel Oil	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	105	105	105	1041	1509	1509
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	105	105	105	1041	1509	1509
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	146	146	146	146	146	146	146	146
of which: - Natural Gas	46	46	46	46	46	46	46	46
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	100	100	100	100	100	100	100	100
Internal Combustion	103	103	103	103	103	103	103	103
of which: - Natural Gas	26	26	26	26	26	26	26	26
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	77	77	77	77	77	77	77	77
Alternatives & Renewables	369	369	419	419	419	529	529	529
Generating Capacity	11588	11588	11743	11748	11799	13420	15374	16459
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	11588	11588	11743	11748	11799	13420	15374	16459
Domestic Peak Demand	9456	10138	10221	10529	10961	12371	13926	15319
Firm Sales	109	324	324	324	174	174	174	124
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	109	324	324	324	174	174	174	124
System Peak Demand	9565	10462	10545	10853	11135	12545	14100	15443

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] The Burrard generating station was assumed to contribute only 40 MW.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Yukon

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	75	75	75	75	75	75	75	75
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	53	53	53	53	53	53	53	53
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	53	53	53	53	53	53	53	53
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	128	128	128	128	128	128	128	128
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	128	128	128	128	128	128	128	128
Domestic Peak Demand	88	94	68	70	71	80	90	100
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	88	94	68	70	71	80	90	100

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - Northwest Territories

(Megawatts)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	46	46	46	46	46	46	46	46
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	22	22	22	22	22	22	22	22
of which: - Natural Gas	20	20	20	20	20	20	20	20
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	2	2	2	2	2	2	2	2
Internal Combustion	122	122	122	122	122	122	122	136
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	122	122	122	122	122	122	122	136
Alternatives & Renewables	0	0	0	0	0	0	0	0
Generating Capacity	190	190	190	190	190	190	190	204
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	190	190	190	190	190	190	190	204
Domestic Peak Demand	108	108	111	113	115	123	131	141
Firm Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
System Peak Demand	108	108	111	113	115	123	131	141

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-1 (Continued)

Generating Capacity by Technology and Fuel Type - British Columbia, Yukon and
Northwest Territories

(Megawatts)

Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	10934	10934	10934	10939	10990	11565	13051	14136
Nuclear	0	0	0	0	0	0	0	0
Steam	157	157	157	157	157	157	157	157
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	91	91	91	91	91	91	91	91
- Heavy Fuel Oil	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	105	105	105	1041	1509	1509
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	105	105	105	1041	1509	1509
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	168	168	168	168	168	168	168	168
of which: - Natural Gas	66	66	66	66	66	66	66	66
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	102	102	102	102	102	102	102	102
Internal Combustion	278	278	278	278	278	278	278	292
of which: - Natural Gas	26	26	26	26	26	26	26	26
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	252	252	252	252	252	252	252	266
Alternatives & Renewables	369	369	419	419	419	529	529	529
Generating Capacity	11906	11906	12061	12066	12117	13738	15692	16791
Firm Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Capacity Available	11906	11906	12061	12066	12117	13738	15692	16791
Domestic Peak Demand	9652	10340	10400	10712	11147	12574	14147	15560
Firm Sales	109	324	324	324	174	174	174	124
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	109	324	324	324	174	174	174	124
System Peak Demand	9761	10664	10724	11036	11321	12748	14321	15684

Notes: The numbers in this table represent installed net dependable capacity and have been rounded.

[a] Source: Statistics Canada Cat. 57-206 for 1991 and consultations with utilities for 1991 to 1993 inclusive, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2

Energy Generation by Technology and Fuel Type - Canada

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	305481	312009	318559	323976	329270	347332	367727	400893
Nuclear	80123	76021	88619	94565	95379	101098	101165	97571
Steam	98844	103514	91399	93223	99904	118293	145008	157490
of which: - Coal Bituminous	14353	14737	11478	12215	11753	14579	15190	17413
- Coal Subbituminous	35965	37870	39606	38514	41347	41076	48974	59379
- Coal Lignite	9990	10925	11226	11339	11528	12372	13148	14559
- Coal Imported	21340	19049	11263	13106	14286	22683	37309	39494
- Natural Gas	5420	7723	7107	10373	9153	13685	11962	8136
- Heavy Fuel Oil	11338	12800	10336	7295	9314	11395	14060	14144
- Light Fuel Oil	65	15	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other [c]	373	395	383	361	2503	2503	4365	4365
Combined Cycle	1533	2714	5290	5212	6304	15501	21015	33643
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	11437
- Natural Gas	1533	2714	5290	5212	6304	14982	20647	21709
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	519	368	497
Combustion Turbines	3048	3207	2744	3352	3560	3950	4661	4837
of which: - Natural Gas	2885	3131	2652	3225	3400	3777	4449	4568
- Light Fuel Oil	19	26	45	41	54	60	61	93
- Diesel	144	50	47	86	106	113	151	176
Internal Combustion	780	704	717	790	800	844	916	1023
of which: - Natural Gas	0	0	0	52	52	52	52	52
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	780	704	717	738	748	792	864	971
Alternatives & Renewables	3249	3468	3762	4264	4889	6631	6676	6676
Energy Generation	493058	501637	511090	525382	540106	593649	647168	702133
Imports [d]	6061	6444	7365	500	500	2600	4813	4683
Total Supply	499119	508081	518455	525882	540606	596249	651981	706816
Domestic Consumption	474596	476552	483609	496692	513233	572577	630007	686515
Exports [d]	24523	31529	34846	29190	27373	23672	21974	20301
Total Demand	499119	508081	518455	525882	540606	596249	651981	706816

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Newfoundland and Labrador

(Gigawatt hours)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	35444	34890	39197	40432	40432	40655	41050	41115
Nuclear	0	0	0	0	0	0	0	0
Steam	1437	1707	1557	2255	2516	2957	3591	3909
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	1437	1707	1557	2235	2496	2957	3591	3909
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	518	368	496
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	518	368	496
Combustion Turbines	3	1	0	24	29	25	17	25
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	2	0	0	16	20	17	11	17
- Diesel	1	1	0	8	9	8	6	8
Internal Combustion	73	70	73	62	63	62	61	62
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	73	70	73	62	63	62	61	62
Alternatives & Renewables	20	24	20	21	21	351	351	351
Energy Generation	36977	36692	40847	42794	43061	44568	45438	45958
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	36977	36692	40847	42794	43061	44568	45438	45958
Domestic Consumption	10576	10696	10905	10910	11182	12719	13620	14170
Sales	26401	25996	29942	31884	31879	31849	31818	31788
of which: - Interprovincial	26401	25996	29942	31884	31879	31849	31818	31788
- Exports	0	0	0	0	0	0	0	0
Total Demand	36977	36692	40847	42794	43061	44568	45438	45958

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Prince Edward Island

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro	0	0	0	0	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0
Steam	68	33	52	80	80	81	80	81
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	68	33	52	80	80	81	80	81
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	1	0	1
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	1	0	1
Combustion Turbines	3	1	6	5	6	5	6	6
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	3	1	6	5	6	5	6	6
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	71	34	58	85	86	87	86	88
Purchases	690	738	747	737	757	868	1007	1130
of which: - Interprovincial	690	738	747	737	757	868	1007	1130
- Imports	0	0	0	0	0	0	0	0
Total Supply	761	772	805	822	843	955	1093	1218
Domestic Consumption	761	772	805	822	843	955	1093	1218
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	761	772	805	822	843	955	1093	1218

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Nova Scotia

(Gigawatt hours)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	1071	895	879	1084	1101	1101	1101	1101
Nuclear	0	0	0	0	0	0	0	0
Steam	8154	8656	8670	8576	8427	9601	10274	10896
of which: - Coal Bituminous	6002	6332	6372	7807	7694	8531	9022	9348
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	2144	2319	2298	769	733	1070	1252	1548
- Light Fuel Oil	8	5	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	11	5	11	10	9	19	30	56
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	11	5	11	10	9	19	30	56
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	158	165	153	156	478	478	478	478
Energy Generation	9394	9721	9713	9826	10015	11199	11883	12531
Purchases [c]	444	253	248	351	351	351	351	351
of which: - Interprovincial	444	253	248	351	351	351	351	351
- Imports	0	0	0	0	0	0	0	0
Total Supply	9838	9974	9961	10177	10366	11550	12234	12882
Domestic Consumption	9776	9907	9919	10177	10366	11550	12234	12882
Sales [c]	62	67	42	0	0	0	0	0
of which: - Interprovincial	62	67	42	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	9838	9974	9961	10177	10366	11550	12234	12882

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - New Brunswick

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	3003	2971	3024	2698	2703	2706	2709	2710
Nuclear	5440	4835	5323	5037	2518	5037	5037	5037
Steam	6998	7862	6499	8110	10313	10061	10988	11934
of which: - Coal Bituminous	1188	1252	1127	2122	699	699	300	300
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	2863	2863	2863	2863	6026
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	5793	6600	5362	3125	4609	4357	5683	3466
- Light Fuel Oil	7	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	10	10	10	0	2142	2142	2142	2142
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	67	21	23	56	75	74	102	99
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	67	21	23	56	75	74	102	99
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	299	273	242	273	273	373	373	373
Energy Generation	15807	15962	15111	16174	15882	18251	19209	20153
Purchases [d]	3525	4041	1631	1466	1547	1222	1140	1140
of which: - Interprovincial	3446	3925	1510	1466	1547	1222	1140	1140
- Imports	79	116	121	0	0	0	0	0
Total Supply	19332	20003	16742	17640	17429	19473	20349	21293
Domestic Consumption	13699	13882	13873	14549	14836	16654	17619	18325
Sales [d]	5633	6121	2869	3091	2593	2819	2730	2968
of which: - Interprovincial	2541	4346	1032	1138	1158	1269	1408	1531
- Exports	3092	1775	1837	1953	1435	1550	1322	1437
Total Demand	19332	20003	16742	17640	17429	19473	20349	21293

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Atlantic

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	39518	38756	43100	44214	44236	44462	44860	44926
Nuclear	5440	4835	5323	5037	2518	5037	5037	5037
Steam	16657	18258	16778	19021	21336	22700	24933	26820
of which: - Coal Bituminous	7190	7584	7499	9929	8393	9230	9322	9648
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	2863	2863	2863	2863	6026
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	9442	10659	9269	6209	7918	8465	10606	9004
- Light Fuel Oil	15	5	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other [c]	10	10	10	0	2142	2142	2142	2142
Combined Cycle	0	0	0	0	0	519	368	497
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	519	368	497
Combustion Turbines	84	28	40	95	119	123	155	186
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	2	0	0	16	20	17	11	17
- Diesel	82	28	40	79	99	106	144	169
Internal Combustion	73	70	73	62	63	62	61	62
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	73	70	73	62	63	62	61	62
Alternatives & Renewables	477	462	415	450	772	1202	1202	1202
Energy Generation	62249	62409	65729	68879	69044	74105	76616	78730
Purchases [d]	3463	3974	1589	1466	1547	1222	1140	1140
of which: - Interprovincial	3384	3858	1468	1466	1547	1222	1140	1140
- Imports	79	116	121	0	0	0	0	0
Total Supply	65712	66383	67318	70345	70591	75327	77756	79870
Domestic Consumption	34812	35257	35502	36458	37227	41878	44566	46595
Sales [d]	30900	31126	31816	33887	33364	33449	33190	33275
of which: - Interprovincial	27808	29351	29979	31934	31929	31899	31868	31838
- Exports	3092	1775	1837	1953	1435	1550	1322	1437
Total Demand	65712	66383	67318	70345	70591	75327	77756	79870

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Québec

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	138550	141222	148823	149743	155083	168296	186106	207811
Nuclear	3910	4600	4807	4276	4276	4276	4276	4276
Steam	285	868	0	223	223	223	223	223
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	21	0	0	23	23	23	23	23
- Heavy Fuel Oil	264	868	0	200	200	200	200	200
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	119	539	539	1492	3895	3895	3895
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	119	539	539	1492	3895	3895	3895
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	6	25	79	79	79	79	79
of which: - Natural Gas	0	0	0	64	64	64	64	64
- Light Fuel Oil	3	6	25	15	15	15	15	15
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	238	251	250	250	250	250	250	250
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	238	251	250	250	250	250	250	250
Alternatives & Renewables	6	10	0	10	22	22	22	22
Energy Generation	142992	147076	154444	155120	161425	177041	194851	216556
Purchases [c]	28604	30916	31203	32434	32429	32099	32068	32038
of which: - Interprovincial	27906	29559	30519	31934	31929	31899	31868	31838
- Imports	698	1357	684	500	500	200	200	200
Total Supply	171596	177992	185647	187554	193854	209140	226919	248594
Domestic Consumption	161530	164605	170153	173371	178994	197711	215869	237247
Sales [c]	10066	13387	15494	14183	14860	11429	11050	11347
of which: - Interprovincial	4109	4510	2486	1974	2055	1603	1521	1521
- Exports	5957	8877	13008	12209	12805	9826	9529	9826
Total Demand	171596	177992	185647	187554	193854	209140	226919	248594

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Ontario

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	37772	39718	40291	39735	39735	39994	39994	43741
Nuclear	70773	66586	78489	85252	88585	91785	91852	88258
Steam	31519	28389	17184	14180	16966	29305	45129	48776
of which: - Coal Bituminous	6739	6693	3558	1786	2860	4849	5368	7765
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	1069	500	638	288	510	929	1084	1626
- Coal Imported	21340	19049	11263	10243	11423	19820	34446	33468
- Natural Gas	1352	1350	1247	1522	1522	1522	1522	1522
- Heavy Fuel Oil	969	787	478	341	651	2185	2709	4395
- Light Fuel Oil	50	10	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	1167	2245	3543	3543	3543	6588	9952	21389
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	11437
- Natural Gas	1167	2245	3543	3543	3543	6588	9952	9952
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	999	1012	621	1242	1251	1301	1400	1525
of which: - Natural Gas	983	991	600	1231	1231	1272	1364	1463
- Light Fuel Oil	14	20	20	10	19	28	35	61
- Diesel	2	1	1	1	1	1	1	1
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	211	567	580	567	567	1022	1022	1022
Energy Generation	142441	138517	140708	144519	150647	169995	189349	204711
Purchases [c]	5940	6369	4488	1426	1505	2070	1011	932
of which: - Interprovincial	2256	2203	1898	1426	1505	2070	1011	932
- Imports	3684	4166	2590	0	0	0	0	0
Total Supply	148381	144886	145196	145945	152152	172065	190360	205643
Domestic Consumption	143460	139382	137484	142803	148090	166545	185603	202389
Sales [c]	4921	5504	7712	3142	4062	5520	4757	3254
of which: - Interprovincial	150	201	555	0	0	579	0	0
- Exports	4771	5303	7157	3142	4062	4941	4757	3254
Total Demand	148381	144886	145196	145945	152152	172065	190360	205643

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Manitoba

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	22554	26434	26863	25182	24816	26186	25340	26828
Nuclear	0	0	0	0	0	0	0	0
Steam	252	252	191	323	323	323	323	11
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	243	245	184	312	312	312	312	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	9	7	7	11	11	11	11	11
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	6	3	0	6	6	6	6	6
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	6	3	0	6	6	6	6	6
Internal Combustion	22	24	26	21	21	21	21	21
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	22	24	26	21	21	21	21	21
Alternatives & Renewables	57	50	41	54	54	54	54	54
Energy Generation	22891	26763	27121	25586	25220	26590	25744	26920
Purchases [c]	1314	976	1120	0	0	578	0	0
of which: - Interprovincial	1025	965	924	0	0	578	0	0
- Imports	289	11	196	0	0	0	0	0
Total Supply	24205	27739	28241	25586	25220	27168	25744	26920
Domestic Consumption	18019	18376	18642	18998	19410	21073	22949	24590
Sales [c]	6186	9363	9599	6588	5810	6095	2795	2330
of which: - Interprovincial	2708	3133	2240	1180	1277	1950	805	708
- Exports	3478	6230	7359	5408	4533	4145	1990	1622
Total Demand	24205	27739	28241	25586	25220	27168	25744	26920

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Saskatchewan

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	4213	3055	4057	3626	3626	3626	3626	3626
Nuclear	0	0	0	0	0	0	0	0
Steam	9147	10757	11014	11435	11379	11922	12740	13759
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	52	123	0	0	0	0
- Coal Lignite	8678	10180	10404	10739	10706	11131	11752	12933
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	434	539	521	535	635	753	950	788
- Heavy Fuel Oil	35	38	37	38	38	38	38	38
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	280	631	631	631
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	280	631	631	631
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	57	144	62	85	80	190	334	291
of which: - Natural Gas	57	144	62	85	80	190	334	291
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	2	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	2	0	0	0	0	0	0	0
Alternatives & Renewables	179	171	170	178	185	185	185	185
Energy Generation	13598	14127	15303	15324	15550	16554	17516	18492
Purchases [c]	1389	1684	1534	314	345	288	214	196
of which: - Interprovincial	1269	1584	1387	314	345	288	214	196
- Imports	120	100	147	0	0	0	0	0
Total Supply	14987	15811	16837	15638	15895	16842	17730	18688
Domestic Consumption	13847	14590	15278	15455	15699	16659	17600	18623
Sales [c]	1140	1221	1559	183	196	183	130	65
of which: - Interprovincial	1001	1083	1330	118	131	118	78	0
- Exports	139	138	229	65	65	65	52	65
Total Demand	14987	15811	16837	15638	15895	16842	17730	18688

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Alberta

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	2030	1584	1828	1831	1831	1831	1831	1831
Nuclear	0	0	0	0	0	0	0	0
Steam	39437	42734	43240	43964	45646	50175	57595	63763
of which: - Coal Bituminous	424	460	421	500	500	500	500	0
- Coal Subbituminous	35965	37870	39554	38391	41347	41076	48974	59379
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	2685	4019	2892	4712	3438	8238	5898	2161
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	363	385	373	361	361	361	2223	2223
Combined Cycle	366	350	380	302	161	773	533	1185
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	366	350	380	302	161	773	533	1185
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	1753	1900	1895	1754	1934	2160	2596	2659
of which: - Natural Gas	1753	1900	1895	1754	1934	2160	2596	2659
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	9	10	20	26	26	26	26	26
of which: - Natural Gas	0	0	0	10	10	10	10	10
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	9	10	20	16	16	16	16	16
Alternatives & Renewables	886	943	915	1117	1401	1458	1503	1503
Energy Generation	44481	47521	48278	48994	50999	56423	64084	70967
Purchases [d]	215	401	771	328	236	223	183	0
of which: - Interprovincial	212	399	769	328	236	223	183	0
- Imports	3	2	2	0	0	0	0	0
Total Supply	44696	47922	49049	49322	51235	56646	64267	70967
Domestic Consumption	44185	45906	46961	47599	49341	56140	62699	68615
Sales [d]	511	2016	2088	1723	1894	506	1568	2352
of which: - Interprovincial	511	2016	2088	1723	1894	506	1568	2352
- Exports	0	0	0	0	0	0	0	0
Total Demand	44696	47922	49049	49322	51235	56646	64267	70967

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - British Columbia

(Gigawatt hours)								
Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60197	60555	53058	59008	59298	62248	65258	71418
Nuclear	0	0	0	0	0	0	0	0
Steam	1547	2256	2992	4077	4031	3645	4065	4138
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	919	1808	2440	3570	3524	3138	3558	3631
- Heavy Fuel Oil	628	448	552	507	507	507	507	507
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	828	828	828	3095	5636	6046
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	828	828	828	3095	5636	6046
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	54	18	6	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	54	18	6	0	0	0	0	0
Internal Combustion	143	70	62	203	203	203	203	203
of which: - Natural Gas	0	0	0	42	42	42	42	42
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	143	70	62	161	161	161	161	161
Alternatives & Renewables	1433	1265	1641	1888	1888	2688	2688	2688
Energy Generation	63374	64164	58587	66004	66248	71879	77850	84493
Purchases [c]	1609	2685	5686	1671	1829	2880	6142	6796
of which: - Interprovincial	421	1993	2061	1671	1829	480	1529	2313
- Imports	1188	692	3625	0	0	2400	4613	4483
Total Supply	64983	66849	64273	67675	68077	74759	83992	91289
Domestic Consumption	57711	57376	58669	61052	63499	71509	79563	87192
Sales [c]	7272	9473	5604	6623	4578	3250	4429	4097
of which: - Interprovincial	186	267	348	210	105	105	105	0
- Exports	7086	9206	5256	6413	4473	3145	4324	4097
Total Demand	64983	66849	64273	67675	68077	74759	83992	91289

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Yukon

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	405	419	287	308	316	360	383	383
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	56	61	48	47	47	47	72	126
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	56	61	48	47	47	47	72	126
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	461	480	335	355	363	407	455	509
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	461	480	335	355	363	407	455	509
Domestic Consumption	461	480	335	355	363	407	455	509
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	461	480	335	355	363	407	455	509

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Northwest Territories

(Gigawatt hours)

Current Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	242	266	252	329	329	329	329	329
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	92	96	95	91	91	91	91	91
of which: - Natural Gas	92	96	95	91	91	91	91	91
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	237	218	238	181	190	235	283	335
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	237	218	238	181	190	235	283	335
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	571	580	585	601	610	655	703	755
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	571	580	585	601	610	655	703	755
Domestic Consumption	571	580	585	601	610	655	703	755
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	571	580	585	601	610	655	703	755

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - British Columbia, Yukon and Northwest Territories

(Gigawatt hours)								
	Current Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60844	61240	53597	59645	59943	62937	65970	72130
Nuclear	0	0	0	0	0	0	0	0
Steam	1547	2256	2992	4077	4031	3645	4065	4138
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	919	1808	2440	3570	3524	3138	3558	3631
- Heavy Fuel Oil	628	448	552	507	507	507	507	507
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	828	828	828	3095	5636	6046
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	828	828	828	3095	5636	6046
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	146	114	101	91	91	91	91	91
of which: - Natural Gas	92	96	95	91	91	91	91	91
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	54	18	6	0	0	0	0	0
Internal Combustion	436	349	348	431	440	485	558	664
of which: - Natural Gas	0	0	0	42	42	42	42	42
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	436	349	348	389	398	443	516	622
Alternatives & Renewables	1433	1265	1641	1888	1888	2688	2688	2688
Energy Generation	64406	65224	59507	66960	67221	72941	79008	85757
Purchases [c]	1609	2685	5686	1671	1829	2880	6142	6796
of which: - Interprovincial	421	1993	2061	1671	1829	480	1529	2313
- Imports	1188	692	3625	0	0	2400	4613	4483
Total Supply	66015	67909	65193	68631	69050	75821	85150	92553
Domestic Consumption	58743	58436	59589	62008	64472	72571	80721	88456
Sales [c]	7272	9473	5604	6623	4578	3250	4429	4097
of which: - Interprovincial	186	267	348	210	105	105	105	0
- Exports	7086	9206	5256	6413	4473	3145	4324	4097
Total Demand	66015	67909	65193	68631	69050	75821	85150	92553

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Canada

(Gigawatt hours)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	305481	312009	318559	323999	329333	347558	363941	384837
Nuclear	80123	76021	88619	94566	95163	101098	101165	97571
Steam	98844	103514	91399	92227	98870	118193	138790	150591
of which: - Coal Bituminous	14353	14737	11478	12215	11672	14646	15304	22465
- Coal Subbituminous	35965	37870	39606	38514	41347	41076	43139	47711
- Coal Lignite	9990	10925	11226	11334	11516	12414	13257	13665
- Coal Imported	21340	19049	11263	13108	14099	22903	37867	39494
- Natural Gas	5420	7723	7107	9380	8425	13129	10711	8503
- Heavy Fuel Oil	11338	12800	10336	7295	9288	11522	14147	14388
- Light Fuel Oil	65	15	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other [c]	373	395	383	361	2503	2503	4365	4365
Combined Cycle	1533	2714	5290	6194	7066	16381	32664	57445
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1533	2714	5290	6194	7066	15862	32296	56948
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	519	368	497
Combustion Turbines	3048	3207	2744	3351	3560	3951	4657	4905
of which: - Natural Gas	2885	3131	2652	3224	3401	3778	4443	4630
- Light Fuel Oil	19	26	45	41	53	60	63	97
- Diesel	144	50	47	86	106	113	151	178
Internal Combustion	780	704	717	790	800	844	916	1023
of which: - Natural Gas	0	0	0	52	52	52	52	52
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	780	704	717	738	748	792	864	971
Alternatives & Renewables	3249	3468	3762	4264	4889	6631	6676	6676
Energy Generation	493058	501637	511090	525391	539681	594656	648809	703048
Imports [d]	6061	6444	7365	500	500	2600	4813	4683
Total Supply	499119	508081	518455	525891	540181	597256	653622	707731
Domestic Consumption	474596	476552	483609	496700	512808	573597	631877	689359
Exports [d]	24523	31529	34846	29191	27373	23659	21745	18372
Total Demand	499119	508081	518455	525891	540181	597256	653622	707731

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Newfoundland and Labrador

(Gigawatt hours)								
	High Tech Case ¹							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	35444	34890	39197	40432	40432	40655	41050	41115
Nuclear	0	0	0	0	0	0	0	0
Steam	1437	1707	1557	2255	2516	2957	3591	3909
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	1437	1707	1557	2235	2496	2957	3591	3909
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	518	368	496
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	518	368	496
Combustion Turbines	3	1	0	24	29	25	17	25
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	2	0	0	16	20	17	11	17
- Diesel	1	1	0	8	9	8	6	8
Internal Combustion	73	70	73	62	63	62	61	62
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	73	70	73	62	63	62	61	62
Alternatives & Renewables	20	24	20	21	21	351	351	351
Energy Generation	36977	36692	40847	42794	43061	44568	45438	45958
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	36977	36692	40847	42794	43061	44568	45438	45958
Domestic Consumption	10576	10696	10905	10910	11182	12719	13620	14170
Sales	26401	25996	29942	31884	31879	31849	31818	31788
of which: - Interprovincial	26401	25996	29942	31884	31879	31849	31818	31788
- Exports	0	0	0	0	0	0	0	0
Total Demand	36977	36692	40847	42794	43061	44568	45438	45958

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Prince Edward Island

(Gigawatt hours)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro	0	0	0	0	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0
Steam	68	33	52	80	80	81	80	81
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	68	33	52	80	80	81	80	81
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	1	0	1
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	1	0	1
Combustion Turbines	3	1	6	5	6	5	6	6
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	3	1	6	5	6	5	6	6
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	71	34	58	85	86	87	86	88
Purchases	690	738	747	737	757	868	1007	1130
of which: - Interprovincial	690	738	747	737	757	868	1007	1130
- Imports	0	0	0	0	0	0	0	0
Total Supply	761	772	805	822	843	955	1093	1218
Domestic Consumption	761	772	805	822	843	955	1093	1218
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	761	772	805	822	843	955	1093	1218

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Nova Scotia

(Gigawatt hours)

High Tech Case

	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	1071	895	879	1084	1101	1101	1101	1101
Nuclear	0	0	0	0	0	0	0	0
Steam	8154	8656	8670	8576	8427	9601	10274	10896
of which: - Coal Bituminous	6002	6332	6372	7807	7694	8531	9022	9348
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	2144	2319	2298	769	733	1070	1252	1548
- Light Fuel Oil	8	5	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	11	5	11	10	9	19	30	56
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	11	5	11	10	9	19	30	56
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	158	165	153	156	478	478	478	478
Energy Generation	9394	9721	9713	9826	10015	11199	11883	12531
Purchases [c]	444	253	248	351	351	351	351	351
of which: - Interprovincial	444	253	248	351	351	351	351	351
- Imports	0	0	0	0	0	0	0	0
Total Supply	9838	9974	9961	10177	10366	11550	12234	12882
Domestic Consumption	9776	9907	9919	10177	10366	11550	12234	12882
Sales [c]	62	67	42	0	0	0	0	0
of which: - Interprovincial	62	67	42	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	9838	9974	9961	10177	10366	11550	12234	12882

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - New Brunswick

(Gigawatt hours)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	3003	2971	3024	2698	2703	2708	2709	2710
Nuclear	5440	4835	5323	5037	2518	5037	5037	5037
Steam	6998	7862	6499	8110	10313	10141	10988	11934
of which: - Coal Bituminous	1188	1252	1127	2122	699	699	300	300
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	2863	2863	2863	2863	6026
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	5793	6600	5362	3125	4609	4437	5683	3466
- Light Fuel Oil	7	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	10	10	10	0	2142	2142	2142	2142
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	67	21	23	56	75	74	102	99
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	67	21	23	56	75	74	102	99
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	299	273	242	273	273	373	373	373
Energy Generation	15807	15962	15111	16174	15882	18333	19209	20153
Purchases [d]	3525	4041	1631	1466	1547	1140	1140	1140
of which: - Interprovincial	3446	3925	1510	1466	1547	1140	1140	1140
- Imports	79	116	121	0	0	0	0	0
Total Supply	19332	20003	16742	17640	17429	19473	20349	21293
Domestic Consumption	13699	13882	13873	14549	14836	16654	17619	18325
Sales [d]	5633	6121	2869	3091	2593	2819	2730	2968
of which: - Interprovincial	2541	4346	1032	1138	1158	1269	1408	1531
- Exports	3092	1775	1837	1953	1435	1550	1322	1437
Total Demand	19332	20003	16742	17640	17429	19473	20349	21293

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Atlantic

(Gigawatt hours)								
	High Tech Case¹							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	39518	38756	43100	44214	44236	44464	44860	44926
Nuclear	5440	4835	5323	5037	2518	5037	5037	5037
Steam	16657	18258	16778	19021	21336	22780	24933	26820
of which: - Coal Bituminous	7190	7584	7499	9929	8393	9230	9322	9648
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	2863	2863	2863	2863	6026
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	9442	10659	9269	6209	7918	8545	10606	9004
- Light Fuel Oil	15	5	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other [c]	10	10	10	0	2142	2142	2142	2142
Combined Cycle	0	0	0	0	0	519	368	497
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	519	368	497
Combustion Turbines	84	28	40	95	119	123	155	186
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	2	0	0	16	20	17	11	17
- Diesel	82	28	40	79	99	106	144	169
Internal Combustion	73	70	73	62	63	62	61	62
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	73	70	73	62	63	62	61	62
Alternatives & Renewables	477	462	415	450	772	1202	1202	1202
Energy Generation	62249	62409	65729	68879	69044	74187	76616	78730
Purchases [d]	3463	3974	1589	1466	1547	1140	1140	1140
of which: - Interprovincial	3384	3858	1468	1466	1547	1140	1140	1140
- Imports	79	116	121	0	0	0	0	0
Total Supply	65712	66383	67318	70345	70591	75327	77756	79870
Domestic Consumption	34812	35257	35502	36458	37227	41878	44566	46595
Sales [d]	30900	31126	31816	33887	33364	33449	33190	33275
of which: - Interprovincial	27808	29351	29979	31934	31929	31899	31868	31838
- Exports	3092	1775	1837	1953	1435	1550	1322	1437
Total Demand	65712	66383	67318	70345	70591	75327	77756	79870

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Québec

(Gigawatt hours)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	138550	141222	148823	149785	155162	168480	182227	199026
Nuclear	3910	4600	4807	4276	4276	4276	4276	4276
Steam	285	868	0	223	223	223	223	223
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	21	0	0	23	23	23	23	23
- Heavy Fuel Oil	264	868	0	200	200	200	200	200
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	119	539	539	1492	3895	8070	12937
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	119	539	539	1492	3895	8070	12937
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	6	25	79	79	79	79	79
of which: - Natural Gas	0	0	0	64	64	64	64	64
- Light Fuel Oil	3	6	25	15	15	15	15	15
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	238	251	250	250	250	250	250	250
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	238	251	250	250	250	250	250	250
Alternatives & Renewables	6	10	0	10	22	22	22	22
Energy Generation	142992	147076	154444	155162	161504	177225	195147	216813
Purchases [c]	28604	30916	31203	32434	32429	32099	32208	32125
of which: - Interprovincial	27906	29559	30519	31934	31929	31899	32008	31925
- Imports	698	1357	684	500	500	200	200	200
Total Supply	171596	177992	185647	187596	193933	209324	227355	248938
Domestic Consumption	161530	164605	170153	173413	179073	197977	216305	237888
Sales [c]	10066	13387	15494	14183	14860	11347	11050	11050
of which: - Interprovincial	4109	4510	2486	1974	2055	1521	1521	1521
- Exports	5957	8877	13008	12209	12805	9826	9529	9529
Total Demand	171596	177992	185647	187596	193933	209324	227355	248938

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Ontario

(Gigawatt hours)								
	High Tech Case ¹							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	37772	39718	40291	39735	39735	39994	39994	43741
Nuclear	70773	66586	78489	85253	88369	91785	91852	88258
Steam	31519	28389	17184	14182	16654	29655	45916	54146
of which: - Coal Bituminous	6739	6693	3558	1786	2779	4916	5482	12817
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	1069	500	638	288	492	945	1112	1700
- Coal Imported	21340	19049	11263	10245	11236	20040	35004	33468
- Natural Gas	1352	1350	1247	1522	1522	1522	1522	1522
- Heavy Fuel Oil	969	787	478	341	625	2232	2796	4639
- Light Fuel Oil	50	10	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	1167	2245	3543	3543	3543	6588	9952	17085
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1167	2245	3543	3543	3543	6588	9952	17085
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	999	1012	621	1242	1250	1302	1407	1592
of which: - Natural Gas	983	991	600	1231	1231	1273	1369	1526
- Light Fuel Oil	14	20	20	10	18	28	37	65
- Diesel	2	1	1	1	1	1	1	1
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	211	567	580	567	567	1022	1022	1022
Energy Generation	142441	138517	140708	144522	150118	170346	190143	205844
Purchases [c]	5940	6369	4488	1425	1505	2070	1011	827
of which: - Interprovincial	2256	2203	1898	1425	1505	2070	1011	827
- Imports	3684	4166	2590	0	0	0	0	0
Total Supply	148381	144886	145196	145947	151623	172416	191154	206671
Domestic Consumption	143460	139382	137484	142805	147561	166896	186257	203379
Sales [c]	4921	5504	7712	3142	4062	5520	4897	3292
of which: - Interprovincial	150	201	555	0	0	579	140	87
- Exports	4771	5303	7157	3142	4062	4941	4757	3205
Total Demand	148381	144886	145196	145947	151623	172416	191154	206671

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Manitoba

(Gigawatt hours)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	22554	26434	26863	25163	24800	26226	25433	25717
Nuclear	0	0	0	0	0	0	0	0
Steam	252	252	191	323	323	323	323	11
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	243	245	184	312	312	312	312	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	9	7	7	11	11	11	11	11
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	300
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	300
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	6	3	0	6	6	6	6	6
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	6	3	0	6	6	6	6	6
Internal Combustion	22	24	26	21	21	21	21	21
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	22	24	26	21	21	21	21	21
Alternatives & Renewables	57	50	41	54	54	54	54	54
Energy Generation	22891	26763	27121	25567	25204	26630	25837	26109
Purchases [c]	1314	976	1120	0	0	578	0	0
of which: - Interprovincial	1025	965	924	0	0	578	0	0
- Imports	289	11	196	0	0	0	0	0
Total Supply	24205	27739	28241	25567	25204	27208	25837	26109
Domestic Consumption	18019	18376	18642	18980	19394	21113	23042	24751
Sales [c]	6186	9363	9599	6587	5810	6095	2795	1358
of which: - Interprovincial	2708	3133	2240	1179	1277	1950	805	568
- Exports	3478	6230	7359	5408	4533	4145	1990	790
Total Demand	24205	27739	28241	25567	25204	27208	25837	26109

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Saskatchewan

(Gigawatt hours)								
	High Tech Case ^a							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	4213	3055	4057	3626	3626	3626	3626	3626
Nuclear	0	0	0	0	0	0	0	0
Steam	9147	10757	11014	11428	11386	11963	12850	12954
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	52	123	0	0	0	0
- Coal Lignite	8678	10180	10404	10734	10712	11157	11833	11965
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	434	539	521	533	636	768	979	951
- Heavy Fuel Oil	35	38	37	38	38	38	38	38
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	280	631	631	1674
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	280	631	631	1674
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	57	144	62	84	81	190	343	337
of which: - Natural Gas	57	144	62	84	81	190	343	337
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	2	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	2	0	0	0	0	0	0	0
Alternatives & Renewables	179	171	170	178	185	185	185	185
Energy Generation	13598	14127	15303	15316	15558	16595	17635	18776
Purchases [c]	1389	1684	1534	314	345	288	201	122
of which: - Interprovincial	1269	1584	1387	314	345	288	201	122
- Imports	120	100	147	0	0	0	0	0
Total Supply	14987	15811	16837	15630	15903	16883	17836	18898
Domestic Consumption	13847	14590	15278	15447	15707	16726	17719	18794
Sales [c]	1140	1221	1559	183	196	157	117	104
of which: - Interprovincial	1001	1083	1330	118	131	105	78	65
- Exports	139	138	229	65	65	52	39	39
Total Demand	14987	15811	16837	15630	15903	16883	17836	18898

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Alberta

(Gigawatt hours)								
High Tech Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	2030	1584	1828	1831	1831	1831	1831	1831
Nuclear	0	0	0	0	0	0	0	0
Steam	39437	42734	43240	42977	44894	49595	50444	52095
of which: - Coal Bituminous	424	460	421	500	500	500	500	0
- Coal Subbituminous	35965	37870	39554	38391	41347	41076	43139	47711
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	2685	4019	2892	3725	2686	7658	4582	2161
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	363	385	373	361	361	361	2223	2223
Combined Cycle	366	350	380	1284	923	1512	6874	11287
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	366	350	380	1284	923	1512	6874	11287
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	1753	1900	1895	1754	1934	2160	2576	2611
of which: - Natural Gas	1753	1900	1895	1754	1934	2160	2576	2611
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	9	10	20	26	26	26	26	26
of which: - Natural Gas	0	0	0	10	10	10	10	10
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	9	10	20	16	16	16	16	16
Alternatives & Renewables	886	943	915	1117	1401	1458	1503	1503
Energy Generation	44481	47521	48278	48989	51009	56582	63254	69353
Purchases [d]	215	401	771	328	236	210	183	170
of which: - Interprovincial	212	399	769	328	236	210	183	170
- Imports	3	2	2	0	0	0	0	0
Total Supply	44696	47922	49049	49317	51245	56792	63437	69523
Domestic Consumption	44185	45906	46961	47593	49357	56299	62984	69073
Sales [d]	511	2016	2088	1724	1888	493	453	450
of which: - Interprovincial	511	2016	2088	1724	1888	493	453	450
- Exports	0	0	0	0	0	0	0	0
Total Demand	44696	47922	49049	49317	51245	56792	63437	69523

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - British Columbia

(Gigawatt hours)								
	High Tech Case ^a							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60197	60555	53058	59008	59298	62248	65258	65258
Nuclear	0	0	0	0	0	0	0	0
Steam	1547	2256	2992	4073	4054	3654	4101	4342
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	919	1808	2440	3566	3547	3147	3594	3835
- Heavy Fuel Oil	628	448	552	507	507	507	507	507
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	828	828	828	3236	6769	13665
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	828	828	828	3236	6769	13665
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	54	18	6	0	0	0	0	3
of which: - Natural Gas	0	0	0	0	0	0	0	1
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	54	18	6	0	0	0	0	2
Internal Combustion	143	70	62	203	203	203	203	203
of which: - Natural Gas	0	0	0	42	42	42	42	42
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	143	70	62	161	161	161	161	161
Alternatives & Renewables	1433	1265	1641	1888	1888	2688	2688	2688
Energy Generation	63374	64164	58587	66000	66271	72029	79019	86159
Purchases [c]	1609	2685	5686	1672	1823	2867	5040	4933
of which: - Interprovincial	421	1993	2061	1672	1823	467	427	450
- Imports	1188	692	3625	0	0	2400	4613	4483
Total Supply	64983	66849	64273	67672	68094	74896	84059	91092
Domestic Consumption	57711	57376	58669	61048	63516	71646	79846	87615
Sales [c]	7272	9473	5604	6624	4578	3250	4213	3477
of which: - Interprovincial	186	267	348	210	105	105	105	105
- Exports	7086	9206	5256	6414	4473	3145	4108	3372
Total Demand	64983	66849	64273	67672	68094	74896	84059	91092

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Yukon

(Gigawatt hours)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	405	419	287	308	316	360	383	383
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	56	61	48	47	47	47	72	126
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	56	61	48	47	47	47	72	126
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	461	480	335	355	363	407	455	509
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	461	480	335	355	363	407	455	509
Domestic Consumption	461	480	335	355	363	407	455	509
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	461	480	335	355	363	407	455	509

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Northwest Territories

(Gigawatt hours)								
	High Tech Case¹							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	242	266	252	329	329	329	329	329
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	92	96	95	91	91	91	91	91
of which: - Natural Gas	92	96	95	91	91	91	91	91
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	237	218	238	181	190	235	283	335
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	237	218	238	181	190	235	283	335
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	571	580	585	601	610	655	703	755
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	571	580	585	601	610	655	703	755
Domestic Consumption	571	580	585	601	610	655	703	755
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	571	580	585	601	610	655	703	755

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - British Columbia, Yukon and
Northwest Territories

(Gigawatt hours)								
	High Tech Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60844	61240	53597	59645	59943	62937	65970	65970
Nuclear	0	0	0	0	0	0	0	0
Steam	1547	2256	2992	4073	4054	3654	4101	4342
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	919	1808	2440	3566	3547	3147	3594	3835
- Heavy Fuel Oil	628	448	552	507	507	507	507	507
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	828	828	828	3236	6769	13665
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	828	828	828	3236	6769	13665
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	146	114	101	91	91	91	91	94
of which: - Natural Gas	92	96	95	91	91	91	91	92
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	54	18	6	0	0	0	0	2
Internal Combustion	436	349	348	431	440	485	558	664
of which: - Natural Gas	0	0	0	42	42	42	42	42
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	436	349	348	389	398	443	516	622
Alternatives & Renewables	1433	1265	1641	1888	1888	2688	2688	2688
Energy Generation	64406	65224	59507	66956	67244	73091	80177	87423
Purchases [c]	1609	2685	5686	1672	1823	2867	5040	4933
of which: - Interprovincial	421	1993	2061	1672	1823	467	427	450
- Imports	1188	692	3625	0	0	2400	4613	4483
Total Supply	66015	67909	65193	68628	69067	75958	85217	92356
Domestic Consumption	58743	58436	59589	62004	64489	72708	81004	88879
Sales [c]	7272	9473	5604	6624	4578	3250	4213	3477
of which: - Interprovincial	186	267	348	210	105	105	105	105
- Exports	7086	9206	5256	6414	4473	3145	4108	3372
Total Demand	66015	67909	65193	68628	69067	75958	85217	92356

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Canada

(Gigawatt hours)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	305481	312009	318559	323976	329270	347353	376420	422932
Nuclear	80123	76021	88619	94565	95379	101098	101165	97571
Steam	98844	103514	91399	93223	99912	118641	137794	150166
of which: - Coal Bituminous	14353	14737	11478	12215	11753	14576	14170	18548
- Coal Subbituminous	35965	37870	39606	38514	41347	41076	48974	59379
- Coal Lignite	9990	10925	11226	11339	11550	12644	12829	12703
- Coal Imported	21340	19049	11263	13106	14286	22670	37098	36331
- Natural Gas	5420	7723	7107	10373	9139	13780	11933	8166
- Heavy Fuel Oil	11338	12800	10336	7295	9314	11392	8425	10674
- Light Fuel Oil	65	15	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other [c]	373	395	383	361	2503	2503	4365	4365
Combined Cycle	1533	2714	5290	5212	6304	16763	23817	23167
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1533	2714	5290	5212	6304	16245	23749	23163
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	518	68	4
Combustion Turbines	3048	3207	2744	3352	3552	3957	4511	4703
of which: - Natural Gas	2885	3131	2652	3225	3392	3783	4374	4514
- Light Fuel Oil	19	26	45	41	54	60	50	69
- Diesel	144	50	47	86	106	114	87	120
Internal Combustion	780	704	717	790	800	844	914	1020
of which: - Natural Gas	0	0	0	52	52	52	52	52
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	780	704	717	738	748	792	862	968
Alternatives & Renewables	3249	3468	3762	4264	4889	6631	6676	6676
Energy Generation	493058	501637	511090	525382	540106	595286	651295	706232
Imports [d]	6061	6444	7365	500	500	200	200	200
Total Supply	499119	508081	518455	525882	540606	595486	651495	706432
Domestic Consumption	474596	476552	483609	496692	513233	572577	630007	686515
Exports [d]	24523	31529	34846	29190	27373	22909	21488	19917
Total Demand	499119	508081	518455	525882	540606	595486	651495	706432

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Newfoundland and Labrador

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	35444	34890	39197	40432	40432	40655	48958	57244
Nuclear	0	0	0	0	0	0	0	0
Steam	1437	1707	1557	2255	2516	2957	1113	298
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	1437	1707	1557	2235	2496	2957	1113	298
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	518	68	4
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	518	68	4
Combustion Turbines	3	1	0	24	29	25	3	1
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	2	0	0	16	20	17	1	0
- Diesel	1	1	0	8	9	8	2	1
Internal Combustion	73	70	73	62	63	62	59	59
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	73	70	73	62	63	62	59	59
Alternatives & Renewables	20	24	20	21	21	351	351	351
Energy Generation	36977	36692	40847	42794	43061	44568	50552	57957
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	36977	36692	40847	42794	43061	44568	50552	57957
Domestic Consumption	10576	10696	10905	10910	11182	12719	13620	14170
Sales	26401	25996	29942	31884	31879	31849	36932	43787
of which: - Interprovincial	26401	25996	29942	31884	31879	31849	36932	43787
- Exports	0	0	0	0	0	0	0	0
Total Demand	36977	36692	40847	42794	43061	44568	50552	57957

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Prince Edward Island

(Gigawatt hours)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro	0	0	0	0	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0
Steam	68	33	52	80	80	81	81	82
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	68	33	52	80	80	81	81	82
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	1	6	5	6	6	5	6
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	3	1	6	5	6	6	5	6
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	71	34	58	85	86	87	86	88
Purchases	690	738	747	737	757	868	1007	1130
of which: - Interprovincial	690	738	747	737	757	868	1007	1130
- Imports	0	0	0	0	0	0	0	0
Total Supply	761	772	805	822	843	955	1093	1218
Domestic Consumption	761	772	805	822	843	955	1093	1218
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	761	772	805	822	843	955	1093	1218

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Nova Scotia

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	1071	895	879	1084	1101	1101	1101	1101
Nuclear	0	0	0	0	0	0	0	0
Steam	8154	8656	8670	8576	8427	9601	8891	9918
of which: - Coal Bituminous	6002	6332	6372	7807	7694	8531	8151	8880
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	2144	2319	2298	769	733	1070	740	1038
- Light Fuel Oil	8	5	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	11	5	11	10	9	19	12	19
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	11	5	11	10	9	19	12	19
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	158	165	153	156	478	478	478	478
Energy Generation	9394	9721	9713	9826	10015	11199	10482	11516
Purchases [c]	444	253	248	351	351	351	1752	1366
of which: - Interprovincial	444	253	248	351	351	351	1752	1366
- Imports	0	0	0	0	0	0	0	0
Total Supply	9838	9974	9961	10177	10366	11550	12234	12882
Domestic Consumption	9776	9907	9919	10177	10366	11550	12234	12882
Sales [c]	62	67	42	0	0	0	0	0
of which: - Interprovincial	62	67	42	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	9838	9974	9961	10177	10366	11550	12234	12882

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - New Brunswick

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	3003	2971	3024	2698	2703	2707	2704	2707
Nuclear	5440	4835	5323	5037	2518	5037	5037	5037
Steam	6998	7862	6499	8110	10313	10060	8460	9480
of which: - Coal Bituminous	1188	1252	1127	2122	699	699	300	300
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	2863	2863	2863	2863	2863
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	5793	6600	5362	3125	4609	4356	3155	4175
- Light Fuel Oil	7	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	10	10	10	0	2142	2142	2142	2142
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	67	21	23	56	75	74	60	86
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	67	21	23	56	75	74	60	86
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	299	273	242	273	273	373	373	373
Energy Generation	15807	15962	15111	16174	15882	18251	16634	17683
Purchases [d]	3525	4041	1631	1466	1547	1222	5458	4399
of which: - Interprovincial	3446	3925	1510	1466	1547	1222	5458	4399
- Imports	79	116	121	0	0	0	0	0
Total Supply	19332	20003	16742	17640	17429	19473	22092	22082
Domestic Consumption	13699	13882	13873	14549	14836	16654	17619	18325
Sales [d]	5633	6121	2869	3091	2593	2819	4473	3757
of which: - Interprovincial	2541	4346	1032	1138	1158	1270	2810	2548
- Exports	3092	1775	1837	1953	1435	1549	1663	1209
Total Demand	19332	20003	16742	17640	17429	19473	22092	22082

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Atlantic

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	39518	38756	43100	44214	44236	44463	52763	61052
Nuclear	5440	4835	5323	5037	2518	5037	5037	5037
Steam	16657	18258	16778	19021	21336	22699	18545	19778
of which: - Coal Bituminous	7190	7584	7499	9929	8393	9230	8451	9180
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	2863	2863	2863	2863	2863
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	9442	10659	9269	6209	7918	8464	5089	5593
- Light Fuel Oil	15	5	0	0	0	0	0	0
- Diesel	0	0	0	20	20	0	0	0
- Other [c]	10	10	10	0	2142	2142	2142	2142
Combined Cycle	0	0	0	0	0	518	68	4
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	518	68	4
Combustion Turbines	84	28	40	95	119	124	80	112
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	2	0	0	16	20	17	1	0
- Diesel	82	28	40	79	99	107	79	112
Internal Combustion	73	70	73	62	63	62	59	59
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	73	70	73	62	63	62	59	59
Alternatives & Renewables	477	462	415	450	772	1202	1202	1202
Energy Generation	62249	62409	65729	68879	69044	74105	77754	87244
Purchases [d]	3463	3974	1589	1466	1547	1222	5458	4399
of which: - Interprovincial	3384	3858	1468	1466	1547	1222	5458	4399
- Imports	79	116	121	0	0	0	0	0
Total Supply	65712	66383	67318	70345	70591	75327	83212	91643
Domestic Consumption	34812	35257	35502	36458	37227	41878	44566	46595
Sales [d]	30900	31126	31816	33887	33364	33449	38646	45048
of which: - Interprovincial	27808	29351	29979	31934	31929	31900	36983	43839
- Exports	3092	1775	1837	1953	1435	1549	1663	1209
Total Demand	65712	66383	67318	70345	70591	75327	83212	91643

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke and orimulsion.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Québec

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	138550	141222	148823	149743	155083	168296	186072	207834
Nuclear	3910	4600	4807	4276	4276	4276	4276	4276
Steam	285	868	0	223	223	223	223	223
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	21	0	0	23	23	23	23	23
- Heavy Fuel Oil	264	868	0	200	200	200	200	200
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	119	539	539	1492	3895	3895	3895
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	119	539	539	1492	3895	3895	3895
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	3	6	25	79	79	79	79	79
of which: - Natural Gas	0	0	0	64	64	64	64	64
- Light Fuel Oil	3	6	25	15	15	15	15	15
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	238	251	250	250	250	250	250	250
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	238	251	250	250	250	250	250	250
Alternatives & Renewables	6	10	0	10	22	22	22	22
Energy Generation	142992	147076	154444	155120	161425	177041	194817	216579
Purchases [c]	28604	30916	31203	32434	32429	32099	37182	44037
of which: - Interprovincial	27906	29559	30519	31934	31929	31899	36982	43837
- Imports	698	1357	684	500	500	200	200	200
Total Supply	171596	177992	185647	187554	193854	209140	231999	260616
Domestic Consumption	161530	164605	170153	173371	178994	197711	215869	237247
Sales [c]	10066	13387	15494	14183	14860	11429	16130	23369
of which: - Interprovincial	4109	4510	2486	1974	2055	1603	6601	13543
- Exports	5957	8877	13008	12209	12805	9826	9529	9826
Total Demand	171596	177992	185647	187554	193854	209140	231999	260616

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Ontario

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	37772	39718	40291	39735	39735	39994	39994	39994
Nuclear	70773	66586	78489	85252	88585	91785	91852	88258
Steam	31519	28389	17184	14180	16966	29286	44612	50481
of which: - Coal Bituminous	6739	6693	3558	1786	2860	4846	5219	9368
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	1069	500	638	288	510	928	1045	1787
- Coal Imported	21340	19049	11263	10243	11423	19807	34235	33468
- Natural Gas	1352	1350	1247	1522	1522	1522	1522	1522
- Heavy Fuel Oil	969	787	478	341	651	2183	2591	4336
- Light Fuel Oil	50	10	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	1167	2245	3543	3543	3543	6588	9952	9952
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	1167	2245	3543	3543	3543	6588	9952	9952
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	999	1012	621	1242	1251	1301	1392	1486
of which: - Natural Gas	983	991	600	1231	1231	1272	1357	1431
- Light Fuel Oil	14	20	20	10	19	28	34	54
- Diesel	2	1	1	1	1	1	1	1
Internal Combustion	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Alternatives & Renewables	211	567	580	567	567	1022	1022	1022
Energy Generation	142441	138517	140708	144519	150647	169976	188824	191193
Purchases [c]	5940	6369	4488	1426	1505	2089	1720	14982
of which: - Interprovincial	2256	2203	1898	1426	1505	2089	1720	14982
- Imports	3684	4166	2590	0	0	0	0	0
Total Supply	148381	144886	145196	145945	152152	172065	190544	206175
Domestic Consumption	143460	139382	137484	142803	148090	166545	185603	202389
Sales [c]	4921	5504	7712	3142	4062	5520	4941	3786
of which: - Interprovincial	150	201	555	0	0	579	0	0
- Exports	4771	5303	7157	3142	4062	4941	4941	3786
Total Demand	148381	144886	145196	145945	152152	172065	190544	206175

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Manitoba

(Gigawatt hours)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	22554	26434	26863	25182	24816	26206	26164	34515
Nuclear	0	0	0	0	0	0	0	0
Steam	252	252	191	323	323	323	323	11
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	243	245	184	312	312	312	312	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	9	7	7	11	11	11	11	11
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	6	3	0	6	6	6	6	6
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	6	3	0	6	6	6	6	6
Internal Combustion	22	24	26	21	21	21	21	21
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	22	24	26	21	21	21	21	21
Alternatives & Renewables	57	50	41	54	54	54	54	54
Energy Generation	22891	26763	27121	25586	25220	26610	26568	34607
Purchases [c]	1314	976	1120	0	350	928	350	350
of which: - Interprovincial	1025	965	924	0	350	928	350	350
- Imports	289	11	196	0	0	0	0	0
Total Supply	24205	27739	28241	25586	25570	27538	26918	34957
Domestic Consumption	18019	18376	18642	18998	19410	21073	22949	24590
Sales [c]	6186	9363	9599	6588	6160	6465	3969	10367
of which: - Interprovincial	2708	3133	2240	1180	1627	2320	1979	8745
- Exports	3478	6230	7359	5408	4533	4145	1990	1622
Total Demand	24205	27739	28241	25586	25570	27538	26918	34957

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Saskatchewan

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	4213	3055	4057	3626	3626	3626	3626	3626
Nuclear	0	0	0	0	0	0	0	0
Steam	9147	10757	11014	11435	11374	12253	12296	11758
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	52	123	0	0	0	0
- Coal Lignite	8678	10180	10404	10739	10728	11404	11472	10916
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	434	539	521	535	608	811	786	804
- Heavy Fuel Oil	35	38	37	38	38	38	38	38
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	280	280	280	280
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	280	280	280	280
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	57	144	62	85	72	196	266	269
of which: - Natural Gas	57	144	62	85	72	196	266	269
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	2	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	2	0	0	0	0	0	0	0
Alternatives & Renewables	179	171	170	178	185	185	185	185
Energy Generation	13598	14127	15303	15324	15537	16540	16653	16118
Purchases [c]	1389	1684	1534	314	695	639	1440	2907
of which: - Interprovincial	1269	1584	1387	314	695	639	1440	2907
- Imports	120	100	147	0	0	0	0	0
Total Supply	14987	15811	16837	15638	16232	17179	18093	19025
Domestic Consumption	13847	14590	15278	15455	15699	16659	17600	18623
Sales [c]	1140	1221	1559	183	533	520	493	402
of which: - Interprovincial	1001	1083	1330	118	468	468	441	350
- Exports	139	138	229	65	65	52	52	52
Total Demand	14987	15811	16837	15638	16232	17179	18093	19025

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Alberta

(Gigawatt hours)								
Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	2030	1584	1828	1831	1831	1831	1831	1831
Nuclear	0	0	0	0	0	0	0	0
Steam	39437	42734	43240	43964	45659	50175	57582	63763
of which: - Coal Bituminous	424	460	421	500	500	500	500	0
- Coal Subbituminous	35965	37870	39554	38391	41347	41076	48974	59379
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	2685	4019	2892	4712	3451	8238	5885	2161
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other [c]	363	385	373	361	361	361	2223	2223
Combined Cycle	366	350	380	302	161	773	533	1146
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	366	350	380	302	161	773	533	1146
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	1753	1900	1895	1754	1934	2160	2596	2659
of which: - Natural Gas	1753	1900	1895	1754	1934	2160	2596	2659
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	9	10	20	26	26	26	26	26
of which: - Natural Gas	0	0	0	10	10	10	10	10
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	9	10	20	16	16	16	16	16
Alternatives & Renewables	886	943	915	1117	1401	1458	1503	1503
Energy Generation	44481	47521	48278	48994	51012	56423	64071	70928
Purchases [d]	215	401	771	328	223	223	196	0
of which: - Interprovincial	212	399	769	328	223	223	196	0
- Imports	3	2	2	0	0	0	0	0
Total Supply	44696	47922	49049	49322	51235	56646	64267	70928
Domestic Consumption	44185	45906	46961	47599	49341	56140	62699	68615
Sales [d]	511	2016	2088	1723	1894	506	1568	2313
of which: - Interprovincial	511	2016	2088	1723	1894	506	1568	2313
- Exports	0	0	0	0	0	0	0	0
Total Demand	44696	47922	49049	49322	51235	56646	64267	70928

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes petroleum coke.

[d] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - British Columbia

(Gigawatt hours)

Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60197	60555	53058	59008	59298	62248	65258	73368
Nuclear	0	0	0	0	0	0	0	0
Steam	1547	2256	2992	4077	4031	3682	4213	4152
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	919	1808	2440	3570	3524	3175	3706	3645
- Heavy Fuel Oil	628	448	552	507	507	507	507	507
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	828	828	828	4709	9089	7890
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	828	828	828	4709	9089	7890
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	54	18	6	0	0	0	1	1
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	54	18	6	0	0	0	1	1
Internal Combustion	143	70	62	203	203	203	203	203
of which: - Natural Gas	0	0	0	42	42	42	42	42
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	143	70	62	161	161	161	161	161
Alternatives & Renewables	1433	1265	1641	1888	1888	2688	2688	2688
Energy Generation	63374	64164	58587	66004	66248	73530	81452	88301
Purchases [c]	1609	2685	5686	1671	1829	480	1529	2313
of which: - Interprovincial	421	1993	2061	1671	1829	480	1529	2313
- Imports	1188	692	3625	0	0	0	0	0
Total Supply	64983	66849	64273	67675	68077	74010	82981	90614
Domestic Consumption	57711	57376	58669	61052	63499	71509	79563	87192
Sales [c]	7272	9473	5604	6623	4578	2501	3418	3422
of which: - Interprovincial	186	267	348	210	105	105	105	0
- Exports	7086	9206	5256	6413	4473	2396	3313	3422
Total Demand	64983	66849	64273	67675	68077	74010	82981	90614

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Yukon

(Gigawatt hours)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	405	419	287	308	316	360	383	383
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	56	61	48	47	47	47	72	126
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	56	61	48	47	47	47	72	126
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	461	480	335	355	363	407	455	509
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	461	480	335	355	363	407	455	509
Domestic Consumption	461	480	335	355	363	407	455	509
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	461	480	335	355	363	407	455	509

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - Northwest Territories

(Gigawatt hours)

Enhanced Cooperation Case								
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	242	266	252	329	329	329	329	329
Nuclear	0	0	0	0	0	0	0	0
Steam	0	0	0	0	0	0	0	0
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0	0
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	92	96	95	91	91	91	91	91
of which: - Natural Gas	92	96	95	91	91	91	91	91
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Internal Combustion	237	218	238	181	190	235	283	335
of which: - Natural Gas	0	0	0	0	0	0	0	0
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	237	218	238	181	190	235	283	335
Alternatives & Renewables	0	0	0	0	0	0	0	0
Energy Generation	571	580	585	601	610	655	703	755
Purchases	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Imports	0	0	0	0	0	0	0	0
Total Supply	571	580	585	601	610	655	703	755
Domestic Consumption	571	580	585	601	610	655	703	755
Sales	0	0	0	0	0	0	0	0
of which: - Interprovincial	0	0	0	0	0	0	0	0
- Exports	0	0	0	0	0	0	0	0
Total Demand	571	580	585	601	610	655	703	755

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

Table A5-2 (Continued)

Energy Generation by Technology and Fuel Type - British Columbia, Yukon and Northwest Territories

(Gigawatt hours)								
	Enhanced Cooperation Case							
	1991 [a]	1992 [a]	1993 [a]	1994	1995	2000	2005	2010
Hydro [b]	60844	61240	53597	59645	59943	62937	65970	74080
Nuclear	0	0	0	0	0	0	0	0
Steam	1547	2256	2992	4077	4031	3682	4213	4152
of which: - Coal Bituminous	0	0	0	0	0	0	0	0
- Coal Subbituminous	0	0	0	0	0	0	0	0
- Coal Lignite	0	0	0	0	0	0	0	0
- Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	919	1808	2440	3570	3524	3175	3706	3645
- Heavy Fuel Oil	628	448	552	507	507	507	507	507
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0
Combined Cycle	0	0	828	828	828	4709	9089	7890
of which: - IGCC Coal Imported	0	0	0	0	0	0	0	0
- Natural Gas	0	0	828	828	828	4709	9089	7890
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	0	0	0	0	0	0	0	0
Combustion Turbines	146	114	101	91	91	91	92	92
of which: - Natural Gas	92	96	95	91	91	91	91	91
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	54	18	6	0	0	0	1	1
Internal Combustion	436	349	348	431	440	485	558	664
of which: - Natural Gas	0	0	0	42	42	42	42	42
- Heavy Fuel Oil	0	0	0	0	0	0	0	0
- Light Fuel Oil	0	0	0	0	0	0	0	0
- Diesel	436	349	348	389	398	443	516	622
Alternatives & Renewables	1433	1265	1641	1888	1888	2688	2688	2688
Energy Generation	64406	65224	59507	66960	67221	74592	82610	89565
Purchases [c]	1609	2685	5686	1671	1829	480	1529	2313
of which: - Interprovincial	421	1993	2061	1671	1829	480	1529	2313
- Imports	1188	692	3625	0	0	0	0	0
Total Supply	66015	67909	65193	68631	69050	75072	84139	91878
Domestic Consumption	58743	58436	59589	62008	64472	72571	80721	88456
Sales [c]	7272	9473	5604	6623	4578	2501	3418	3422
of which: - Interprovincial	186	267	348	210	105	105	105	0
- Exports	7086	9206	5256	6413	4473	2396	3313	3422
Total Demand	66015	67909	65193	68631	69050	75072	84139	91878

Notes: The numbers in this table have been rounded.

[a] Source: Statistics Canada Cat. 57-202 for 1991, Cat. 57-001 for 1992 and 1993, and National Energy Board records.

[b] Includes conventional and small hydro.

[c] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

Table A5-3
 Net Electricity Exports and Transfers - Canada and Provinces [a]

(Gigawatt hours)										
Historical [b]										
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Newfoundland and Labrador	37829	35941	35779	31229	36012	31836	30696	30393	30702	24368
Prince Edward Island	-388	-480	-478	-520	-550	-585	-595	-591	-606	-622
Nova Scotia	54	-192	-83	616	-32	-169	-540	-577	-19	-100
New Brunswick	485	147	-95	2408	1881	886	667	595	3234	4398
Québec	-20336	-17481	-17923	-11714	-13132	-7733	-3700	-1593	-14298	-17963
Ontario	3775	3367	3988	5570	2223	-677	-1764	-626	2195	-5794
Manitoba	5541	4902	6516	7318	6246	6864	7837	3926	-744	1186
Saskatchewan	-624	-248	-390	-402	-272	-211	-48	-13	-331	-134
Alberta	26	91	-259	-122	-43	137	57	462	876	2258
British Columbia	631	7828	4307	2499	6759	9974	1367	11851	6825	2193
Canada	26993	33875	31362	36882	39092	40322	33977	43827	27834	9790

Historical [b]					Projected Current Tech Case				
	1990	1991	1992	1993	1994	1995	2000	2005	2010
Newfoundland and Labrador	26688	26401	25996	29942	31884	31879	31849	31818	31788
Prince Edward Island	-671	-690	-738	-747	-737	-757	-868	-1007	-1130
Nova Scotia	-249	-382	-186	-206	-351	-351	-351	-351	-351
New Brunswick	3494	2108	2080	1238	1625	1046	1597	1590	1828
Québec	-21825	-18538	-17529	-15709	-18251	-17569	-20670	-21018	-20691
Ontario	-13454	-1019	-865	3224	1716	2557	3450	3746	2322
Manitoba	2722	4872	8387	8479	6588	5810	5517	2795	2330
Saskatchewan	-84	-249	-463	25	-131	-149	-105	-84	-131
Alberta	800	296	1615	1317	1395	1658	283	1385	2352
British Columbia	3542	5663	6788	-82	4952	2749	370	-1713	-2699
Canada	963	18462	25085	27481	28690	26873	21072	17161	15618

Projected High Tech Case					Projected Enhanced Cooperation Case					
	1994	1995	2000	2005	2010	1994	1995	2000	2005	2010
Newfoundland and Labrador	31884	31879	31849	31818	31788	31884	31879	31849	36932	43787
Prince Edward Island	-737	-757	-868	-1007	-1130	-737	-757	-869	-1008	-1132
Nova Scotia	-351	-351	-351	-351	-351	-351	-351	-351	-1752	-1366
New Brunswick	1625	1046	1679	1590	1828	1625	1046	1597	-985	-642
Québec	-18251	-17569	-20752	-21158	-21075	-18251	-17569	-20670	-21052	-20668
Ontario	1717	2557	3450	3886	2465	1716	2557	3431	3220	-11196
Manitoba	6587	5810	5517	2795	1358	6588	5810	5537	3619	10017
Saskatchewan	-131	-149	-131	-84	-18	-131	-162	-119	-947	-2505
Alberta	1396	1652	283	270	280	1395	1671	283	1372	2313
British Columbia	4952	2755	383	-827	-1456	4952	2749	2021	1889	1109
Canada	28691	26873	21059	16932	13689	28690	26873	22709	21288	19717

Notes: The numbers in this table have been rounded.
 [a] Net Electricity Exports and Transfers represent the arithmetic sum of all inflows and outflows where inflows are negative and outflows are positive. All net flows exclude exchanges in the projected period, but include exchanges in the historical period.
 [b] Source: Statistics Canada Cat. 57-202 from 1980 to 1991 and Cat. 57-001 for 1992 and 1993, and National Energy Board records.

Table A5-4

Gross Electricity Exports - Canada and Provinces

Current Tech Case								
Gigawatt hours [a]								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
New Brunswick	3092	1775	1837	1953	1435	1550	1322	1437
Québec	5957	8877	13008	12209	12805	9826	9529	9826
Ontario	4771	5303	7157	3142	4062	4941	4757	3254
Manitoba	3478	6230	7359	5408	4533	4145	1990	1622
Saskatchewan	139	138	229	65	65	65	52	65
British Columbia	7086	9206	5256	6413	4473	3145	4324	4097
Canada	24523	31529	34846	29190	27373	23672	21974	20301
Petajoules [c]								
New Brunswick	33.7	17.6	18.4	19.3	13.9	15.2	12.7	14.0
Québec	21.4	32.0	46.8	44.0	46.1	35.4	34.3	35.4
Ontario	49.6	56.0	75.7	39.2	50.8	58.4	53.0	34.7
Manitoba	13.0	22.4	26.5	19.5	16.3	14.9	7.2	5.8
Saskatchewan	1.8	1.7	2.7	0.8	0.8	0.8	0.6	0.8
British Columbia	31.6	55.3	32.3	38.0	27.2	16.5	23.8	26.9
Canada	151.1	185.0	202.4	160.8	155.1	141.2	131.6	117.6
High Tech Case								
Gigawatt hours [a]								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
New Brunswick	3092	1775	1837	1953	1435	1550	1322	1437
Québec	5957	8877	13008	12209	12805	9826	9529	9529
Ontario	4771	5303	7157	3142	4062	4941	4757	3205
Manitoba	3478	6230	7359	5408	4533	4145	1990	790
Saskatchewan	139	138	229	65	65	52	39	39
British Columbia	7086	9206	5256	6414	4473	3145	4108	3372
Canada	24523	31529	34846	29191	27373	23659	21745	18372
Petajoules [c]								
New Brunswick	33.7	17.6	18.4	19.3	13.9	15.2	12.7	14.0
Québec	21.4	32.0	46.8	44.0	46.1	35.4	34.3	34.3
Ontario	49.6	56.0	75.7	39.2	50.8	58.3	52.9	34.7
Manitoba	13.0	22.4	26.5	19.5	16.3	14.9	7.2	2.8
Saskatchewan	1.8	1.7	2.7	0.8	0.8	0.6	0.5	0.5
British Columbia	31.6	55.3	32.3	38.0	27.2	16.5	21.5	19.3
Canada	151.1	185.0	202.4	160.8	155.1	140.9	129.1	105.6

Notes: The numbers in this table have been rounded.

[a] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

[b] Source: National Energy Board records.

[c] Input energy converted from gigawatt hours using a conversion of 0.0036 PJ/GW.h for hydro and plant-specific average net heat rates for all thermal plants.

Table A5-4 (Continued)

Gross Electricity Exports - Canada and Provinces

Enhanced Cooperation Case								
Gigawatt hours [a]								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
New Brunswick	3092	1775	1837	1953	1435	1549	1663	1209
Québec	5957	8877	13008	12209	12805	9826	9529	9826
Ontario	4771	5303	7157	3142	4062	4941	4941	3786
Manitoba	3478	6230	7359	5408	4533	4145	1990	1622
Saskatchewan	139	138	229	65	65	52	52	52
British Columbia	7086	9206	5256	6413	4473	2396	3313	3422
Canada	24523	31529	34846	29190	27373	22909	21488	19917
Petajoules [c]								
New Brunswick	33.7	17.6	18.4	19.3	13.9	15.2	16.2	11.5
Québec	21.4	32.0	46.8	44.0	46.1	35.4	34.3	35.4
Ontario	49.6	56.0	75.7	39.2	50.8	58.4	55.0	43.5
Manitoba	13.0	22.4	26.5	19.5	16.3	14.9	7.2	5.8
Saskatchewan	1.8	1.7	2.7	0.8	0.8	0.6	0.6	0.6
British Columbia	31.6	55.3	32.3	38.0	27.2	13.8	20.2	24.5
Canada	151.1	185.0	202.4	160.8	155.1	138.3	133.5	121.3

Notes: The numbers in this table have been rounded.

[a] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

[b] Source: National Energy Board records.

[c] Input energy converted from gigawatt hours using a conversion of 0.0036 PJ/GW.h for hydro and plant-specific average net heat rates for all thermal plants.

Table A5-5

Gross Electricity Exports by Fuel Type - Canada

Current Tech Case [a]								
Gigawatt hours								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
Hydro [c]	16052	21619	24187	22027	20307	16018	14143	13466
Coal	4178	5029	6143	1586	1090	1972	3679	4096
Nuclear	2642	1964	2358	3604	4259	3562	1784	890
Oil	1181	769	869	983	858	752	675	245
Natural Gas	388	2066	1212	935	612	1098	1484	1079
Other [d]	82	82	77	55	247	270	209	525
Total	24523	31529	34846	29190	27373	23672	21974	20301
Petajoules [e]								
	1991	1992	1993	1994	1995	2000	2005	2010
Hydro [c]	57.8	77.8	87.1	79.3	73.1	57.7	50.9	48.5
Coal	44.3	53.5	64.8	17.4	12.1	21.0	39.0	42.7
Nuclear	32.0	22.9	27.8	44.3	52.9	44.0	21.7	10.5
Oil	11.5	7.1	8.3	8.9	7.6	6.5	5.7	1.3
Natural Gas	4.6	22.9	13.6	10.2	6.7	9.1	12.1	9.1
Other [d]	0.9	0.9	0.8	0.6	2.6	2.9	2.3	5.5
Total	151.1	185.0	202.4	160.8	155.1	141.2	131.6	117.6
High Tech Case [a]								
Gigawatt hours								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
Hydro [c]	16052	21619	24187	22028	20308	16018	14155	12337
Coal	4178	5029	6143	1590	1066	2012	3495	3320
Nuclear	2642	1964	2358	3604	4259	3509	1739	866
Oil	1181	769	869	983	858	752	675	245
Natural Gas	388	2066	1212	931	635	1098	1472	1079
Other [d]	82	82	77	55	247	270	209	525
Total	24523	31529	34846	29191	27373	23659	21745	18372
Petajoules [e]								
	1991	1992	1993	1994	1995	2000	2005	2010
Hydro [c]	57.8	77.8	87.1	79.3	73.1	57.7	51.0	44.4
Coal	44.3	53.5	64.8	17.5	11.8	21.3	37.0	35.0
Nuclear	32.0	22.9	27.8	44.3	52.9	43.3	21.2	10.2
Oil	11.5	7.1	8.3	8.9	7.6	6.5	5.7	1.3
Natural Gas	4.6	22.9	13.6	10.2	6.9	9.1	12.0	9.1
Other [d]	0.9	0.9	0.8	0.6	2.7	3.0	2.2	5.5
Total	151.1	185.0	202.4	160.8	155.1	140.9	129.1	105.6

Notes: The numbers in this table have been rounded.

[a] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

[b] Source: National Energy Board records.

[c] Includes conventional and small hydro.

[d] Includes biomass and orimulsion in New Brunswick.

[e] Input energy converted from gigawatt hours using a conversion of 0.0036 PJ/GW.h for hydro and plant-specific average net heat rates for all thermal plants.

Table A5-5 (Continued)

Gross Electricity Exports by Fuel Type - Canada

Enhanced Cooperation Case [a]								
Gigawatt hours								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
Hydro [c]	16052	21619	24187	22027	20307	15269	13132	12791
Coal	4178	5029	6143	1586	1090	1921	3840	3095
Nuclear	2642	1964	2358	3604	4259	3562	1796	2158
Oil	1181	769	869	983	858	835	952	655
Natural Gas	388	2066	1212	935	612	1098	1484	1079
Other [d]	82	82	77	55	247	224	284	139
Total	24523	31529	34846	29190	27373	22909	21488	19917
Petajoules [e]								
	1991	1992	1993	1994	1995	2000	2005	2010
Hydro [c]	57.8	77.8	87.1	79.3	73.1	55.0	47.3	46.1
Coal	44.3	53.5	64.8	17.4	12.1	20.4	40.7	32.8
Nuclear	32.0	22.9	27.8	44.3	52.9	44.0	21.9	26.4
Oil	11.5	7.1	8.3	8.9	7.6	7.4	8.5	5.5
Natural Gas	4.6	22.9	13.6	10.2	6.7	9.1	12.1	9.1
Other [d]	0.9	0.9	0.8	0.6	2.6	2.4	3.1	1.5
Total	151.1	185.0	202.4	160.8	155.1	138.3	133.5	121.3

Notes: The numbers in this table have been rounded.

[a] Includes exchanges from 1991 to 1993 inclusive, whereas 1994 to 2010 excludes exchanges.

[b] Source: National Energy Board records.

[c] Includes conventional and small hydro.

[d] Includes biomass and orimulsion in New Brunswick.

[e] Input energy converted from gigawatt hours using a conversion of 0.0036 PJ/GW.h for hydro and plant-specific average net heat rates for all thermal plants.

Table A5-6

Primary Energy Demand for Electricity Generation - Canada

(Petajoules) [a]								
Current Tech Case								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
Hydro [c]	1099.7	1123.2	1146.8	1166.3	1185.4	1250.4	1323.8	1443.2
Uranium	969.5	931.7	1094.2	1172.8	1188.6	1257.3	1258.1	1213.2
Coal	913.3	914.6	817.4	834.8	875.7	1003.1	1243.8	1518.1
of which: - Bituminous	151.7	161.4	126.4	135.2	130.4	161.7	168.3	300.8
- Subbituminous	411.7	419.8	439.1	427.2	457.6	454.5	523.5	630.0
- Lignite	127.8	134.3	134.7	136.8	138.9	148.9	158.6	172.9
- Imported	222.1	199.2	117.2	135.6	148.8	237.9	393.3	414.4
Natural Gas	76.3	119.3	123.5	161.0	153.5	264.3	277.7	244.9
Oil	130.4	141.4	114.3	84.5	106.8	136.5	164.2	172.0
of which: - Heavy Fuel Oil	118.3	131.5	103.8	72.9	94.4	119.1	146.5	150.7
- Light Fuel Oil	1.4	0.4	0.8	0.7	0.9	1.0	1.0	1.6
- Diesel	10.7	9.4	9.8	11.0	11.5	16.4	16.7	19.6
Alternatives & Renewables	30.1	26.3	27.6	31.5	35.8	51.6	51.9	51.9
Other [d]	1.1	2.4	2.3	2.0	24.7	24.7	45.0	45.0
Total Primary Energy Equivalent	3220.5	3258.9	3326.2	3452.9	3570.4	3988.0	4364.6	4688.3
High Tech Case								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
Hydro [c]	1099.7	1123.2	1146.8	1166.4	1185.6	1251.2	1310.2	1385.4
Uranium	969.5	931.7	1094.2	1172.8	1185.7	1257.3	1258.1	1213.2
Coal	913.3	914.6	817.4	834.8	872.8	1006.7	1190.5	1331.0
of which: - Bituminous	151.7	161.4	126.4	135.2	129.5	162.4	169.5	245.6
- Subbituminous	411.7	419.8	439.1	427.2	457.6	454.5	462.8	508.6
- Lignite	127.8	134.3	134.7	136.7	138.8	149.4	160.0	163.7
- Imported	222.1	199.2	117.2	135.6	146.8	240.3	398.2	413.2
Natural Gas	76.3	119.3	123.5	157.6	151.5	264.4	360.8	537.2
Oil	130.4	141.4	114.3	84.5	106.4	137.9	165.3	175.0
of which: - Heavy Fuel Oil	118.3	131.5	103.8	72.9	94.1	120.5	147.5	153.7
- Light Fuel Oil	1.4	0.4	0.8	0.7	0.9	1.0	1.1	1.7
- Diesel	10.7	9.4	9.8	11.0	11.5	16.4	16.7	19.7
Alternatives & Renewables	30.1	26.3	27.6	31.5	35.8	51.6	51.9	51.9
Other [d]	1.1	2.4	2.3	2.0	24.7	24.7	45.0	45.0
Total Primary Energy Equivalent	3220.5	3258.9	3326.2	3449.5	3562.5	3993.8	4381.9	4738.7

Notes: The numbers in this table have been rounded.

[a] Input energy converted from gigawatt hours using a conversion of 0.0036 PJ/GW.h for hydro and plant-specific average net heat rates for all thermal plants.

[b] Source: Statistics Canada Cat. 57-202 for 1991 and Cat. 57-001 for 1992 and 1993.

[c] Includes conventional and small hydro.

[d] Includes petroleum coke and orimulsion.

Table A5-6 (Continued)

Primary Energy Demand for Electricity Generation - Canada

(Petajoules) [a]								
Enhanced Cooperation Case								
	1991 [b]	1992 [b]	1993 [b]	1994	1995	2000	2005	2010
Hydro [c]	1099.7	1123.2	1146.8	1166.3	1185.4	1250.5	1355.1	1522.6
Uranium	969.5	931.7	1094.2	1172.8	1188.6	1257.3	1258.1	1213.2
Coal	913.3	914.6	817.4	834.8	876.0	1006.4	1225.0	1365.4
of which: - Bituminous	151.7	161.4	126.4	135.2	130.4	161.7	155.9	201.3
- Subbituminous	411.7	419.8	439.1	427.2	457.6	454.5	523.5	630.0
- Lignite	127.8	134.3	134.7	136.8	139.2	152.4	154.5	151.3
- Imported	222.1	199.2	117.2	135.6	148.8	237.8	391.0	382.9
Natural Gas	76.3	119.3	123.5	161.0	153.1	276.0	300.2	256.3
Oil	130.4	141.4	114.3	84.5	106.8	136.4	101.6	128.7
of which: - Heavy Fuel Oil	118.3	131.5	103.8	72.9	94.4	119.0	87.5	112.9
- Light Fuel Oil	1.4	0.4	0.8	0.7	0.9	1.0	0.8	1.2
- Diesel	10.7	9.4	9.8	11.0	11.5	16.4	13.2	14.6
Alternatives & Renewables	30.1	26.3	27.6	31.5	35.8	51.6	51.9	51.9
Other [d]	1.1	2.4	2.3	2.0	24.7	24.7	45.0	45.0
Total Primary Energy Equivalent	3220.5	3258.9	3326.2	3452.9	3570.3	4002.9	4336.8	4583.1

Notes: The numbers in this table have been rounded.

[a] Input energy converted from gigawatt hours using a conversion of 0.0036 PJ/GW.h for hydro and plant-specific average net heat rates for all thermal plants.

[b] Source: Statistics Canada Cat. 57-202 for 1991 and Cat. 57-001 for 1992 and 1993.

[c] Includes conventional and small hydro.

[d] Includes petroleum coke and orimulsion.

A6.1 THE NORTH AMERICAN REGIONAL GAS MODEL

The North American natural gas market is very complex – there are many supply and demand regions and many pipelines which connect them. Each of these regions and pipelines have their own physical and economic attributes. Hence, any aggregate analysis of this market which uses enough regional detail for the analysis to be realistic, must integrate a very large amount of data into a coherent behavioural framework. Otherwise, it simply is not possible to develop a coherent set of projections linking demands, supplies, flows and prices. We do this by using the Decision Focus Inc. “North American Regional Gas” model (NARG), and other NEB supply and demand models.

The main usefulness of NARG for present purposes is that it provides us with a broad, long-term integrated picture of how North American gas flows and prices could evolve, given the assumptions we make about supply and demand conditions in each regional market. It is designed on the basis of competitive markets working to maximize returns to the resource owner while minimizing costs to consumers within any given set of basic assumptions. The NARG embodies the exhaustible resource and producer foresight assumptions. It has the advantage of incorporating a great deal of regional information on supply and supply costs, pipeline tolls and capacities, and demand conditions into one internally consistent analytical framework which explicitly integrates the Canadian and U.S. markets.

All such models simplify and stylize the complex world they portray. Because of this, and because of the uncertainty about many of the assumptions needed to operate such a model, neither this model, nor any other we know of in this field, provides “the right answer”. It does provide an indicative understanding of the directions in which the market may move, given our assumptions. The NEB’s other models provide considerably more detail on Canadian supply and demand matters than is available from NARG; hence, we use NARG to analyze the overall North American market – especially prices and inter-regional flows over time. Fieldgate price and export information from NARG is used in conjunction with the Board’s other models. Informed judgement, based on consultation with market participants, is applied in order to produce a more detailed picture of Canadian supply and demand.

Price Formation and Gas Flows

We develop our projections of natural gas prices on the premise that Canada participates in an open integrated and competitive North American natural gas market, in which North American supply and demand conditions determine the prices of natural gas in Canada and in the U.S. Comparative delivered costs from different sources determine the flows from particular sources to destinations. Canada’s natural gas exports to and imports from the U.S. form part of this flow pattern. The inter-regional distribution of these flows indicates the pipeline capacity which may be required over the longer term.

On the **supply** side, a number of key assumptions determine the incremental unit cost of natural gas (supply cost). Incremental costs depend upon the cost of factor inputs (e.g., labour and equipment for exploration, development and processing), and on the finding rate (the amount of gas discovered per metre of drilling), which is in turn related to ultimate potential. In the Current Technology case we assume that as the resource is progressively depleted the finding rate declines, which causes supply costs to increase. This progression of declining finding rates and increasing cost may be mitigated by on-going technological progress which we account for in our supply cost estimates using the High Technology case. The biggest component of exploration and development costs is the cost of drilling. The main financial variables are interest rates for debt, return to equity, and the debt:equity ratio. The reserves to production ratio influences the level of production costs; the higher it is, the more gas it is necessary to find per unit of production, which would likely have higher costs.

On the **demand** side, the demand for gas depends mainly upon economic activity, demographic factors (e.g., household formation), fuel preferences (e.g., environmental fuel preference for electricity generation) and the prices of competing fuels (e.g., oil). As the resource base is progressively depleted the gas supply cost tends to increase, which means that gas will be produced only if fieldgate prices increase to accommodate these increasing costs.

One key objective of our analysis is to find paths of natural gas prices over time, which will balance supply and demand, given assumptions about the underlying supply and demand conditions. The value of

natural gas is different for different users, depending partly on the cost of their alternative fuel options, which may differ between users and on environmental concerns.

There is a special feature of the natural gas industry which plays some role in gas price formation: some analysts believe that conventional natural gas is a depletable resource, the cost of which will increase with cumulative consumption, up to a price level at which gas from another source or some other close substitute can be made available in very large amounts relative to consumption. This fuel is called the "backstop resource". The value of the backstop resource influences wellhead prices over all time periods in the projection, to the extent that resource owners (in Canada mainly provincial governments) know and take future value into account in today's pricing and output decisions.

They do this by adjusting the amount they will supply to the market such that there will be just enough revenue between the market price and the direct supply cost to compensate them in present value terms for making the gas available now rather than holding it in the ground until it gains more value later on. This surplus is commonly known as a "depletion premium" or a "user cost". We use the latter term. The cost of the backstop, the time to exhaustion, the discount rate used for bringing future value to present value and the size of the market are the key factors determining the user cost. This approach to price formation requires that resource owners in aggregate know these values far into the future, (notwithstanding that different analysts' estimates of ultimate potential and backstop values differ substantially). The user cost, combined with direct production costs (the level of which at any time results from cumulative consumption up to that time) determines the market price.

If royalties were set on the basis of the foregoing principles, the royalty would be the user cost appropriated by the resource owner while the producer would earn a normal rate of return on investment, which is part of the direct supply cost.

This view of the price formation process is somewhat controversial. There is a body of opinion which argues that the whole theory of price formation based on depletable resources and foresight of future value is flawed. The key elements of this critique are:

- the economic depletion of the natural gas resource is so far into the future that backstop considerations have very little present value;

- there is wholly inadequate evidence upon which to estimate with confidence the future costs of either natural gas or the backstop resource;
- because of this, resource owners do not know future resource values, costs and market conditions; therefore inter-temporal optimization of how much to supply at any one time is impossible and;
- there are technical and institutional constraints which prevent producers from adjusting their supply to an economically optimal level per time period, even if they knew how to do so.

Those who support this critique would find it more realistic to portray resource owners and producers as making investment and production decisions based on a much shorter time horizon, uncertain information and other factors which the exhaustible resource/accurate foresight approach does not take into account for price determination.

While these arguments may have merit, they do not invalidate using an analytical framework which portrays rational market behaviour based on expectations about the exhaustibility (physical or economic) and future value of energy resources. It would be just as extreme to argue that future expectations about market fundamentals do not enter into long-term supply development decisions and the design of royalty regimes, as it is to argue that they drive supply decisions.

For producers, investment in natural gas exploration and development, as for most other investment decisions, means incurring front-end costs in the expectation of future returns. For many producers, this not only involves decisions about whether to invest in particular plays, but also a more general, longer-term commitment to the industry. These commitments normally involve careful assessment of opportunities and risks, which necessitates developing some perspective on future costs and benefits. Furthermore, even for "gas in the ground", producers do defer some sales today, in the expectation of greater present-value returns from some other sales prospect tomorrow. In short, we believe that in general producers make decisions in their economic interest, taking account of future expectations.

It is also reasonable to expect that producing-province governments exercise some foresight in how they set royalties, because they perceive that natural gas is both a depletable resource and an important component

of their economic assets. The rate at which they tax it influences producer net-backs, how much of it gets depleted now, what will be left for consumption tomorrow, and how much revenue they will be able to earn tomorrow from remaining resources. We believe that governments generally understand that supply and demand influence price, that taxation influences supply and demand, and that there is "time value" to the sale of the resource.

Recognizing that the future matters to both resource owners and producers, it is not clear how long the time horizon is for different players, how they value it, how good their judgement can be about future oil and gas values, and how other factors (for example, short-term cash flow needs or defence of market share) may influence their taxation and production decisions. Our analytical framework tends to be biased towards portraying rational behaviour based on accurate foresight. We have chosen to portray this concept using a framework which assumes eventual resource exhaustibility which may be either physical or economic and accounts for future value, because it has the merit of taking into account certain longer-term decision variables which appear to influence gas market behaviour.

The approach integrates into one behavioural framework many strands of current energy market policy and analysis, for example: the current policy framework is to generally let the market determine supply, demand and price; most industry analysts subscribe to the view that the natural gas resource has identifiable economic limits in the long term, though estimates vary widely. An analytical framework for long-term projections of oil and gas prices, which incorporate long-term views of supply costs and market values is appealing, when used with caution.

We mentioned above that alternative fuel prices influence the demand for natural gas, which in turn influences the price of gas. Some observers of energy markets suggest that the oil price determines the natural gas price on a \$/Btu-parity basis such that, for example, when oil prices decline, gas prices must decline similarly, otherwise gas would lose market share. The underlying reasoning is that a considerable portion of the natural gas market is switchable between oil and gas, especially in the U.S.

The price of oil does influence the price of gas, but the price changes of the two fuels, or their actual price levels are unlikely to be equivalent, because:

- supply and demand conditions in the two fuel markets are not necessarily the same, either in the short run or in the long run;

- contractual arrangements may lend less flexibility to gas price arrangements than is usually the case for oil, which is generally traded on a very short-term basis; and
- when the oil price changes, gas prices may not change to the same extent; it depends upon how much demand is switchable to oil over what price range and time period, and to the extent to which gas supply cost conditions allow producers and resource owners to meet oil prices and maximize their returns.

In addition to these general principles of price determination, the natural gas industry has special characteristics which must be taken into account if the analysis is to provide useful insight into how gas markets may evolve, for example:

- producing and consuming regions are spread across the continent and the different regions have different supply and demand characteristics; and
- the costs of transportation differ between the various supply and demand points.

A key function of a competitive market's economic behaviour, and an objective of our projections, is to find levels of demand and supply and flow patterns which maximize returns to the resource owner while minimizing costs to the consumer, for any given set of underlying assumptions.

In NARG, market shares between competing supply sources are generally determined on the basis of price. The relative cost of one supply source versus another, at a demand point, will determine the percentage share allocated to each supply source. Two other parameters also influence the share: the lag time to switch between sources, and a parameter which governs the allocation percentage as a function of the relative price. For gas-on-gas competition the switch between sources is designed to occur fairly rapidly. For the fuel switchable markets there is a longer lag built-in and a lower price sensitive parameter.

To summarize:

- North American supply and demand conditions including prices of alternative fuels determine natural gas prices and flows across the continent. Because such a large proportion of total demand and supply occurs in the U.S., U.S. market conditions have a major effect on price formation in Canada.

- In general, the most important factors determining natural gas prices are assumptions about backstop prices, the shape of the supply cost curves, oil prices, factors determining demand, and the rate at which cumulative North American energy consumption causes gas supply costs to increase.
- The size of Canada's exports to the U.S. depends upon competitive conditions (comparative supply costs and pipeline tolls) which Canadian gas faces in the various regional markets to which it may be delivered in competition with U.S. gas. Canadian exports do not directly determine Canadian natural gas prices. Rather, it is North American supply and demand conditions which determine both exports and prices.
- Our analytical framework operates on the basic presumption that markets work competitively, and that current regulatory practices do not fundamentally alter commodity market outcomes. This approach is consistent with the basic energy policies and regulatory practices in both Canada and the U.S.
- There is considerable uncertainty about most of the variables which influence the results, hence it is appropriate to treat these results as indicative, and to focus on the ranges indicated by the two principal cases and sensitivity cases.
- There is debate about the realism of models which estimate supply, demand and price assuming accurate foresight of long-term scarcity values.

Nonetheless, we consider the framework useful, accompanied by consultations with market participants and informed judgement.

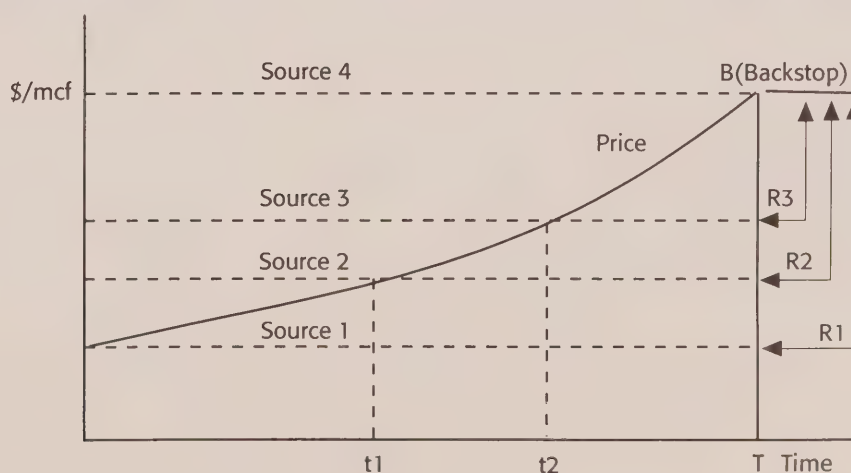
User Cost

The rationale for the user cost component of the natural gas price is that gas is a non-renewable resource which has under certain conditions, increasing marginal cost. The resource owner knows that his gas will have value up to that of the backstop, that his own supply costs will likely increase with cumulative production, and that what is sold at current prices will not be available to sell in the future, perhaps at higher prices. The wealth is the gas in the ground. Therefore, given the market price, it pays the producer to supply at any time only that amount of gas which recovers the producer's direct production costs (including rate of return) and compensates the resource owner, the present value of which is equal to the foregone opportunity of earning a higher future value by selling the gas later in time. The discussion of user cost is simplified if we assume that at some future time, it will no longer pay to produce conventional resources because there will be a substitute fuel indefinitely available at a known price (the backstop resource).

This is a theoretical approach to modelling royalties and other revenue, such as land sales, to the resource owner, which assumes that the owner will behave in a market responsive manner. This is, perhaps a simplification. The approach will not model individual producer behaviour.

Figure A6-1 shows the evolution of the market price over time in a multi-source market. Starting at the

Figure A6-1
User Cost (a)



left side of this diagram, demand is being met from Source 1, at increasing marginal cost, until cumulative consumption and increasing price makes it profitable for Source 2 (a costlier source) to begin production. Both sources continue to produce at increasing marginal cost, until it pays for Source 3 to begin production, and the process continues until Source 4 is called upon (say it is a backstop resource such as a massive supply of coal-bed methane) and it then sets the market price. The price at which each successive source commences production determines the user cost for gas from each prior source. At the backstop there is no user cost, because there is no rent between price and marginal cost, by definition. The market price is being set by the direct and user cost of the incremental unit of gas, the timing of which depends upon annual demand and cumulative consumption at the prices so being determined.

The discount rate (i) is an important variable for managing supply. It should reflect the opportunity value of capital to resource owners (typically provincial governments). Relatively speaking, a high discount rate indicates greater near-term earning opportunities for gas converted to capital because it sets a lower present value on the future, and hence encourage greater near-term supply and lower prices. The reverse is the case for low discount rates.

The user cost for Source 1 at time t_1 would be the present value of the rent R_1 . This value is discounted over the time period $T - t_1$ using the discount rate i . Similar determinations can be made for times t_2 and T .

Figure A6-2 shows the aggregate market supply curve and price path resulting from the processes described above. The line cz is the time path of aggregate, incremental direct supply cost; the difference between cz and price (pz) is the incremental user cost, which in aggregate decreases as direct costs increase to the backstop (note that yy^* is less than xx^*). At the backstop (z) user cost is zero, because there is no rent – i.e., no difference between the marginal cost of the backstop and the market price. An economically optimal royalty regime would extract all of the user cost from the market.

A6.2 COMPILATION OF ELECTRIC UTILITY GAS DEMAND FOR USE IN NARG MODEL ANALYSIS

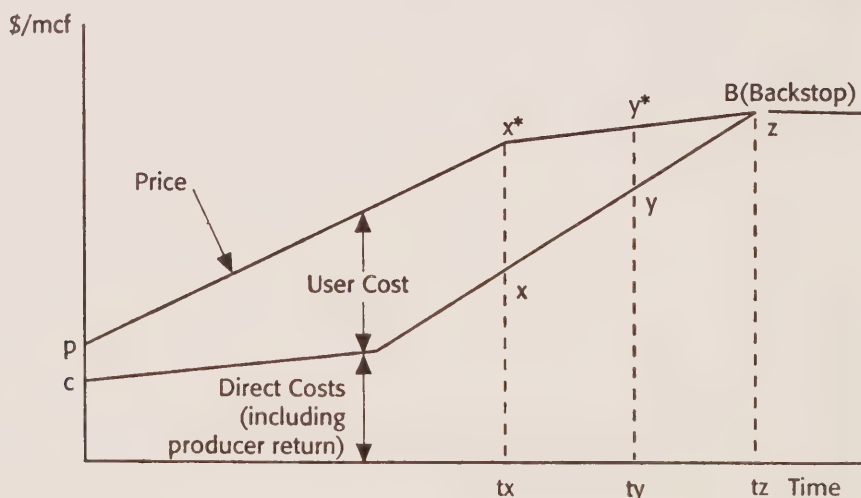
To use the NARG model in our natural gas market analysis, we must develop an exogenous projection of fuel requirements for electricity generation, disaggregated according to switchability between gas and HFO and between gas and LFO. The sources and procedure used to develop this projection are described below.

The three main technologies for gas or oil fired electric generation are steam turbine, combustion turbine and combined cycle.

Steam turbine units can generally use natural gas or other fuels such as HFO. The large scale and continuous operation characteristics of steam turbine facilities limit their use in commercial and industrial applications, therefore we assume the use of steam turbines to be confined to electric utilities.

Combustion turbines and combined cycle units generally use either natural gas or LFO. Combustion

Figure A6-2
User Cost (b)



turbine and combined cycle technology is employed by electric utilities, independent power producers (IPP), as well as by commercial and industrial cogenerators.

Our projection of gas and oil demand for electric generation includes :

1. gas volumes for commercial cogeneration¹
2. gas volumes for industrial cogeneration
3. oil volumes for industrial cogeneration²
4. HFO volumes for electric utilities
5. LFO volumes for electric utilities
6. gas volumes for electric utilities – steam turbine (assumed switchable to HFO)
7. gas volumes for electric utilities – combustion turbine/combined cycle (assumed switchable to LFO).

Based on the above, we assume the electric generation market switchable between gas and HFO includes electric utilities using steam turbine technology (components 4 and 6 above). The electric generation market switchable between gas and LFO is assumed to include electric utilities using combustion turbine and combined cycle technologies as well as commercial and industrial cogenerators (components 1, 2, 3, 5 and 7 above).

For the projection of electric generation gas and oil demand in Canada, we use in-house NEB data for each of the above components.

The U.S. projection involves the compilation of data from three sources, as no one source provides all of the above components. The remainder of this section describes the sources of the U.S. data and the procedure we have used to combine these sources to provide a U.S. electric generation projection for the NARG model.

To maintain consistency with the projections in other market sectors, we continue to use the GRI Baseline³

- for electric generation gas and oil demand. The GRI Baseline projects gas and oil use by cogenerators in addition to gas, HFO and LFO use by electric utilities (components 1 to 5 above). The GRI Baseline also projects total gas demand by electric utilities, but does not distinguish electric utility gas use according to steam turbine or combustion turbine/combined cycle technology (components 6 and 7 above).

An alternative projection is provided by the North American Electric Reliability Council (NERC)⁴

- The NERC projection does disaggregate electric utility gas use according to steam turbine, combustion turbine and combined cycle technologies. Although we use the fuel consumption data by volume (million cubic feet), the NERC projection also provides this information by generating capacity (MW) and generation (gWh). However, the NERC projection does not provide projections of gas and oil use by cogenerators. The NERC projection is also relatively short term (to 2001) and aggregates the data according to NERC region and sub-region which is a different regional representation than in the NARG model.

The EIA Natural Gas Annual⁵ indicates historical gas consumption by electric utilities by state. Like GRI, the EIA makes no distinction in electric utility gas demand according to generation technology. GRI's value for 1991 electric utility gas consumption corresponds to that of the EIA.

For the NARG model base year (1991), we use the NERC data in order to allocate the GRI's electric utility gas demand by technology (components 6 and 7 above). As an example, we examine GRI's Mountain #1 region which includes Montana, Colorado, Wyoming, Idaho, Utah and Nevada.

GRI's Mountain #1 region includes part of NERC's Northwest Power Pool Area (which includes Nevada, Washington, Oregon, California (part), Idaho, Utah and Montana) as well as NERC's Rocky Mountain Power Area (comprised of Colorado and Wyoming). NERC reports the 1991 natural gas requirements for these areas (see Table A6-1).

1 Oil use in commercial cogeneration is negligible.

2 Cogeneration is assumed to utilize combined cycle technology, therefore all oil used in industrial cogeneration is assumed to be LFO.

3 P.D. Holtberg, T.J. Woods, and M.L. Lihn, *1993 Edition of the GRI Baseline Projection of U.S. Energy Supply and Demand to 2010*, Gas Research Institute, Chicago, Illinois, 1993.

4 North American Electric Reliability Council, *Electricity Supply and Demand*, 1992-2001, June 1992.

5 Energy Information Administration, *Natural Gas Annual 1992*, November 1993.

Since NERC regions do not correspond to NARG regions, we must disaggregate the above NERC regional data by state and then recombine the state-based data into NARG regions. To perform this operation, we assume that the shares of steam turbine and combustion turbine/combined cycle gas demand are the same for each state comprising a single NERC region or subregion.

We first determine EIA's 1991 volume of electric utility gas demand for each state in the NARG region.

We then apply the NERC-derived shares of steam turbine and combustion turbine/combined cycle gas use to the EIA-reported volumes of electric utility gas demand for each state in the NARG region. We then sum the state volumes to determine the 1991 volume of electric utility steam turbine and combustion turbine/combined cycle gas demand in the NARG region (see Table A6-2).

For GRI's Mountain #1 region, the 1991 level of electric utility gas demand switchable to HFO is therefore 22.323 Bcf and the 1991 level of electric utility gas demand switchable to LFO is therefore 10.664 Bcf. We then add the 1991 levels of gas and oil fired cogeneration from GRI's Baseline to the electric generation market switchable between gas and LFO.

Beyond 1991, we expect all growth in gas-fired electric generation to occur in the market switchable

between gas and LFO due to an increasing reliance on cogeneration and the lower capital costs, greater operational flexibility and higher fuel efficiencies associated with combustion turbine/combined cycle technologies. As a result, for the input demand path in the NARG model, we apply all increases in GRI's projection of gas demand for electric generation to the market switchable between gas and LFO. We also increase LFO use for electric generation in accordance with the GRI Baseline projection, with average annual increases of 2.1 percent.

After 1991, we expect increasing electricity demands will cause the older gas-fired steam turbine units slated for retirement to instead be life-extended. As a result, for the input demand path in the NARG model, we maintain gas demand in the market switchable between gas and HFO at current levels throughout the projection period. Over this period, HFO use for electric generation declines in accordance with the GRI Baseline, with average annual decreases of 0.8 percent.

When we operate the model to derive the demand results, the demands for each fuel change according to the evolution of relative natural gas and HFO or LFO prices.

Table A6-1
Natural Gas Requirements in 1991 – Northwest Power Pool and Rocky Mountain Power

	Bcf/year	% of Total
Northwest Power Pool		
Steam Turbine	18.306	61.3
Combustion turbine/combined cycle	11.556	38.7
Rocky Mountain Power		
Steam Turbine	5.226	97.6
Combustion turbine/combined cycle	0.128	2.4

Table A6-2

Determination of 1991 Volume of Gas Demand in NARG Regions

Natural Gas for Steam Turbines (Switchable to HFO)

	Bcf/year	Share %	Bcf switchable to HFO
	(1)	(2)	(3) = (1) x (2)
Montana	0.268	61.3	0.164
Colorado	5.715	97.6	5.578
Wyoming	0.076	97.6	0.074
Idaho	0.000	61.3	0.000
Utah	5.190	61.3	3.181
Nevada	21.738	61.3	13.325
Total	32.987		22.323

**Natural Gas for Combustion Turbine/Combined Cycle
(Switchable to LFO)**

	Bcf/year	Share %	Bcf switchable to LFO
	(1)	(2)	(3) = (1) x (2)
Montana	0.268	38.7	0.104
Colorado	5.715	2.4	0.137
Wyoming	0.076	2.4	0.002
Idaho	0.000	38.7	0.000
Utah	5.190	38.7	2.009
Nevada	21.738	38.7	8.413
Total	32.987		10.664

Table A6-3
United States Natural Gas Resource Estimates
Disaggregated by NARG Region

(Tcf)

PGC "Most Likely" Resource Estimates						
NARG #	Supply Area	Probable	Possible	Speculative	Total	NEB
1	North Alaska Onshore	31	15	24	69	69
2	Cook Inlet	1	2	3	7	7
18	Beaufort Sea	2	12	40	54	54
19	South Alaska	0	0	14	14	14
	Total Alaska	34	29	81	143	143
43,62	California Onshore	1	5	8	14	13
39	S California Offshore	0	10	6	16	16
3	San Juan Basin	2	1	0	2	2
6	Rocky Mountain Deep	13	22	5	41	26
4	Rocky Mountain	26	34	10	70	52
7	Northern Great Plains	3	3	2	7	11
10	West Texas JS	6	19	1	26	26
40	West Texas JS Deep	8	13	0	21	21
29,74	Anadarko JN	20	17	23	60	60
9	Anadarko JN Deep	9	10	5	23	23
14	Midwest C	0	5	9	15	13
16	Appalachian A	20	8	17	45	43
42	Appalachian Deep	0	0	10	10	8
37	Atlantic Offshore	0	0	13	13	0
46	S E Gulf B	3	5	10	19	16
11	S E Louisiana	7	8	0	15	15
45	Arkoma D	7	9	8	24	22
44	South Texas G	9	17	8	34	34
41	Gulf Deep BDEG	1	19	7	27	27
12	Offshore Gulf EGO	22	33	8	63	63
47	Deep Offshore	0	0	30	30	0
	> 1000 metres WD					
	Total Lower 48 States	156	239	179	574	492

(a) The regional estimates for the Lower-48 States used in the NARG model differ somewhat from those reported elsewhere in the report due to adjustments made to facilitate the preparation of the model input data.

(b) The NEB has made a separate estimate of 63 Tcf for tight gas, which has been disaggregated from the Appalachian and Rocky Mountain regions of PGC.

(c) Estimates include reserves appreciation.

(d) The numbers in this table have been rounded

Table A6-4

Composition of Pipeline Corridors

No.	Pipeline Corridor	Constituent Pipelines[a]
1	ANGTS to Alberta	(Alaska Natural Gas Transportation System, 1996)
2	North to South Alaska	(Trans-Alaska Gas System, 1996)
3	South Alaska to Japan	Yukon Pacific LNG
4	San Juan to S. California	El Paso - North Leg + Southern California Gas Co., (Transwestern - San Juan Lateral, 1993)
5	San Juan to N. California	El Paso - North Leg + PG&E
6	San Juan to EOR (Mojave)	El Paso North Leg + (Mojave Pipeline, 1993)
7	San Juan to Rocky Mountains	Northwest Pipeline[b]
8	San Juan to West North Central	El Paso - North Leg, Public Service of New Mexico Gas Co., Western Gas Supply
9	San Juan to Permian Basin	(El Paso, 1992)
10	Rockies to San Juan	Northwest Pipeline[b], (TransColorado Project, 1992)
11	Rockies to West North Central	KN Energy, Colorado Interstate, Overthrust, Wyoming Interstate, Questar
12	Rockies to Northern Great Plains	(Unnamed, 2000)
13	Rockies to Anadarko	Williams Natural Gas, Colorado Interstate Gas Company
14	Rockies to EOR	Kern River Pipeline
15	Rockies to Pacific Northwest	Northwest Pipeline
16	Rockies to California Border	Northwest Pipeline + PGT Loop
17	Northern Great Plains to East North Central	(Unnamed, 2017)
18	Northern Great Plains to West North Central	Williston Basin Pipeline
19	Anadarko to West North Central	KN Energy, ANR Pipeline Co., Northern Natural Gas, Williams Natural Gas, Panhandle Eastern Pipe Line, Colorado Interstate Gas Company
20	Anadarko to East North Central	ANR Pipeline Company, Natural Gas Pipeline Company of America, Northern Natural Gas, Panhandle Eastern Pipe Line
21	Anadarko to Permian Basin	El Paso, Transwestern, Red River, Westar Transmission, Palo Duro
22	Anadarko to West South Central	Various Texas & Oklahoma Intrastate Pipelines
23	Anadarko to Gulf Coast	Seagas Pipeline, Texoma Pipeline
24	Anadarko to Permian	El Paso
25	Anadarko to Permian	Transwestern
26	Arkoma to Anadarko	Arkansas-Oklahoma Gas, Ozark Gas Transmission System
27	Arkoma to East South Central	(Panhandle Eastern, Oklahoma-Arkansas Pipeline, Arkla, 1992)

[a] Proposed pipelines in brackets

[b] Bi-directional

Table A6-4 (Continued)
Composition of Pipeline Corridors

No.	Pipeline Corridor	Constituent Pipelines
28	Permian Basin to Anadarko	Natural Gas Pipeline Company of America:Northern Natural Gas
29	Permian Basin to West North Central	El Paso - South Leg, Transwestern
30	Permian Basin to West South Central	Various Texas Intrastate Pipelines
31	Permian Basin to San Juan	El Paso - North Leg
32	Permian Basin to S. California	El Paso - South Leg
33	Permian Basin to S. California	Transwestern
34	Permian Basin to Gulf Coast	Lone Star[b], Oasis, Valero - North Leg+South Leg[b]
35	Gulf Coast to West South Central	Black Marlin, Gulf, Houston Pipeline, Valero, ANR Pipeline, Natural Gas Pipeline Company of America, Sea Robin, Southern Natural Gas Co., Stingray, Tennessee Gas Pipeline, Texas Eastern Transmission, Texas Gas Transmission, Transcontinental Gas Pipe Line, Trunkline Gas Company, United Gas Pipe Line, Florida Gas Transmission, Mississippi River Transmission, Arkla, United Texas Transmission Co., Exxon Gas Supply, TransAmerican, Channel, Delhi, High Island Offshore System, Lone Star, Various Texas Intrastate Pipelines
36	Gulf Coast to Permian Basin	Lone Star[b], Valero - South Leg[b]
37	Gulf Coast to East South Central	Columbia Gulf Transmission, Florida Gas Transmission, Southern Natural Gas Co., Transcontinental Gas Pipe Line, United Gas Pipeline, Tennessee Gas Pipeline, ANR Pipeline Co., Trunkline Gas Co., Texas Gas Transmission, Texas Eastern Transmission, Mississippi River Transmission, Natural Gas Pipeline Company of America
38	North Central to East North Central	Various Ohio, Michigan and Illinois Intrastate Pipelines
39	West North Central to East North Central	Trailblazer + Natural Gas Pipeline of America/Northern Natural Gas
40	East North Central to Mid-Atlantic	Trunkline Gas Co., Columbia Gas Transmission, Texas Eastern Transmission, CNG Transmission
41	East North Central to Ontario	Panhandle, ANR, St.Clair

[b] Bi-directional

Table A6-4 (Continued)
Composition of Pipeline Corridors

No.	Pipeline Corridor	Constituent Pipelines
42	East South Central to East North Central	ANR Pipeline Co., Natural Gas Pipeline Co. of America, Texas Eastern Transmission, Texas Gas Transmission, Trunkline Gas Co., Midwestern Gas Transmission, Mississippi River Transmission
43	East South Central to South Atlantic	Florida Gas Transmission, United Gas Pipe Line, Transcontinental Gas PipeLine, Southern Natural Gas Co. Columbia Gas Transmission,
44	East South Central to Mid-Atlantic	Texas Eastern Transmission, Tennessee Gas Pipeline, CNG Transmission
45	Appalachia to South Atlantic	East Tennessee, Tennessee Gas Pipeline Columbia Gas Transmission, CNG Transmission
46	Appalachia to Mid-Atlantic	CNG Transmission, Columbia Gas Transmission, Equitable
47	South Atlantic to Mid-Atlantic	Columbia Gas Transmission, Transcontinental Gas Pipe Line
48	Mid-Atlantic to New England	Algonquin, Tennessee Gas Pipeline
49	Pacific Northwest to California Border	Northwest Pipeline + PGT Loop
50	Pacific Northwest to Rockies	Northwest Pipeline
51	California Border to S. California	Pacific Gas & Electric Expansion
52	California Border to N. California	Pacific Gas & Electric, (Pacific Gas & Electric Expansion, 1993)
53	S. California to SOCALGAS Co.	Southern California Gas Co.
54	S. California to SDG&E	Southern California Gas Co.
55	S. California to EOR	Southern California Gas Co.
56	SOCALGAS Co. to EOR	Southern California Gas Co.
57	N. California to PG&E	Pacific Gas and Electric
58	PG&E to EOR	Pacific Gas and Electric
59	EOR to N. California	(Pacific Gas and Electric, 1992)
60	EOR to S. California	(Southern California Gas Co., 1992)
61	Offshore Atlantic to South Atlantic	(Unnamed, 1995)
62	Offshore Atlantic to Mid-Atlantic	(Unnamed, 1995)
63	Mexico to Gulf Coast	Petroleos Mexicanos, Texas Eastern Transmission

Table A6-4 (Continued)

Composition of Pipeline Corridors

No.	Pipeline Corridor	Constituent Pipelines
64	LNG to Gulf Coast	Trunkline LNG
65	LNG to South Atlantic	Columbia LNG, Southern Energy Co.
66	LNG to New England	Distrigas
67	Huntingdon to Pacific Northwest	Northwest Pipeline, Ferndale Pipeline
68	South Alberta to California Border	Pacific Gas Transmission
69	South Alberta to Pacific Northwest	Northwest Pipeline - via PGT & PITCO
70	South Alberta to West North Central	Montana Power Co.
71	South Alberta to Rockies	(Altamont, 1996)
72	Monchy to West North Central	Northern Border Pipeline
73	Monchy to East North Central	Northern Border Pipeline
74	Emerson to East North Central	Great Lakes, Midwestern Gas Transmission
75	New York Border to Mid-Atlantic	Niagara, St. Lawrence Gas, Portland Pipeline, Vermont Gas System
76	New York Border to Mid-Atlantic	Iroquois
77	Scotian Shelf to New England	(Venture Project, 2000)
78	BC to BC Demand	Westcoast Transmission
79	BC to Huntingdon	Westcoast Transmission
80	BC to Alberta	Westcoast Transmission
81	Alberta to BC	Westcoast Transmission
82	Alberta to Western Canada	NOVA, Canadian Western, NW Utilities Ltd.
83	Alberta to Monchy	NOVA + Foothills - East Leg
84	Alberta to Saskatchewan	NOVA + TransCanada, NOVA + Saskatchewan Power
85	Alberta to South Alberta	NOVA + Foothills - West Leg
86	Northern Canada to Alberta	(MacKenzie Valley Pipeline, 1996)
87	Saskatchewan to Western Canada	Saskatchewan Power
88	Saskatchewan to Ontario	TransCanada Pipelines
89	Saskatchewan to Emerson	TransCanada Pipelines
90	Ontario to Eastern Canada	TransCanada Pipelines
91	Ontario to New York Border	TransCanada Pipelines

Table A6-5

Pipeline Corridor Input Data

No.	Corridor Name	Toll (\$ C 1991/GJ)	Proposed Pipeline Year of Commercial Availability
1	ANGTS to Alberta	2.81	1996
2	North to South Alaska	2.23	1996
3	South Alaska to Japan	2.11	
4	San Juan to S. California	0.32	
5	San Juan to N. California	0.32	
6	San Juan to EOR (Mojave)	0.43	1993
7	San Juan to Rocky Mountains	0.31	
8	San Juan to West North Central[a]	0.27	
9	San Juan to Permian Basin	0.42	1993
10	Rockies to San Juan	0.31	
11	Rockies to West North Central	0.30	
12	Rockies to Northern Great Plains	1.76[b]	2000
13	Rockies to Anadarko	0.57	
14	Rockies to EOR	0.62	1993
15	Rockies to Pacific Northwest	0.26	
16	Rockies to California Border	0.38	1993
17	Northern Great Plains to East North Central	1.55[b]	2017
18	Northern Great Plains to West North Central	0.38	
19	Anadarko to West North Central	0.42	
20	Anadarko to East North Central	0.42	
21	Anadarko to Permian Basin	0.29	
22	Anadarko to West South Central	0.15	
23	Anadarko to Gulf Coast	0.15	
24	Anadarko to Permian (El Paso)	0.06	
25	Anadarko to Permian (Transwestern)	0.06	
26	Arkoma to Anadarko	0.06	
27	Arkoma to East South Central	0.31	1992
28	Permian Basin to Anadarko	0.12	
29	Permian Basin to West North Central	0.16	
30	Permian Basin to West South Central	0.12	
31	Permian Basin to San Juan	0.16	
32	Permian Basin to S. California (El Paso)	0.37	
33	Permian Basin to S. California (Transwestern)	0.37	
34	Permian Basin to Gulf Coast	0.31	
35	Gulf Coast to West South Central	0.31	
36	Gulf Coast to Permian Basin	0.31	
37	Gulf Coast to East South Central	0.25	

[a] Maximum flows on this pipeline corridor have been specified at .18 Tcf/yr.

[b] This toll is calculated endogenously according to capital costs and operating costs specified by the user.

Table A6-5 (Continued)
Pipeline Corridor Input Data

No.	Corridor Name	Toll (\$ C 1991/GJ)	Proposed Pipeline Year of Commercial Availability
38	North Central to East North Central	0.38	
39	West North Central to East North Central	0.61	
40	East North Central to Mid-Atlantic	0.78	1992
41	East North Central to Ontario	0.31	
42	East South Central to East North Central	0.25	
43	East South Central to South Atlantic	0.37	
44	East South Central to Mid-Atlantic	0.56	
45	Appalachia to South Atlantic	0.58	
46	Appalachia to Mid-Atlantic	0.58	
47	South Atlantic to Mid-Atlantic	0.20	
48	Mid-Atlantic to New England	0.37	
49	Pacific Northwest to California Border	0.12	1993
50	Pacific Northwest to Rockies	0.01	
51	California Border to S. California	0.37	1993
52	California Border to N. California[c]	0.11	
53	S. California to SOCALGAS Co.	0.19	
54	S. California to SDG&E	0.25	
55	S. California to EOR	0.12	
56	SOCALGAS Co. to EOR	0.50	
57	N. California to PG&E	0.19	
58	PG&E to EOR	0.47	
59	EOR to N. California	0.12	1993
60	EOR to S. California	0.12	1993
61	Offshore Atlantic to South Atlantic	0.87	1995
62	Offshore Atlantic to Mid-Atlantic	1.38	1995
63	Mexico to Gulf Coast	1.30	
64	LNG to Gulf Coast	0.31	
65	LNG to South Atlantic	0.31	
66	LNG to New England	0.62	

[c] Transmission costs increase to \$0.17 if flows exceed 0.40 Tcf/year.

Table A6-5 (Continued)

Pipeline Corridor Input Data

No.	Corridor Name	Toll (\$ C 1991/GJ)	Proposed Pipeline Year of Commercial Availability
67	Huntingdon to Pacific Northwest	0.26	
68	South Alberta[d] to California Border[e]	0.15	
69	South Alberta to Pacific Northwest	0.31	
70	South Alberta to West North Central	0.87	
71	South Alberta to Rockies (Altamont)	0.45	1993
72	Monchy to West North Central[f]	0.36	
73	Monchy to East North Central[g]	0.50	1992
74	Emerson[h] to East North Central	0.50	
75	New York Border[i] to Mid-Atlantic (Niagara)	0.38	
76	New York Border to Mid-Atlantic (Iroquois)	0.43	1992
77	Scotian Shelf to New England	1.98	2000
78	BC to BC Demand	0.31	
79	BC to Huntingdon	0.31	
80	BC to Alberta[j]	0.07	
81	Alberta to BC	0.03	
82	Alberta to Western Canada	0.28	
83	Alberta to Monchy	0.40	
84	Alberta to Saskatchewan	0.28	
85	Alberta to South Alberta	0.35	
86	Northern Canada to Alberta[k]	2.12	1996
87	Saskatchewan to Western Canada	0.28	
88	Saskatchewan to Ontario	0.85	
89	Saskatchewan to Emerson	0.28	
90	Ontario to Eastern Canada	0.00	
91	Ontario to New York Border	0.00	

[d] South Alberta includes Kingsgate, Reaganfield, Cardston and Aden export points

[e] Transmission costs increase to \$0.22 if flows exceed 0.40 Tcf/year.

[f] Transmission costs increase to \$0.53 if flows exceed 0.34 Tcf/year.

[g] Transmission costs increase to \$0.74 if flows exceed 0.22 Tcf/year.

[h] Emerson includes Emerson, Sprague and Fort Frances export points

[i] NY Border includes Niagara, Cornwall, Phillipsburg, Highwater and Windsor export points

[j] Transmission costs increase to \$0.14/Mcf if flows exceed 0.07 Tcf/year

[k] Maximum flows on this pipeline corridor have been specified at 0.70 Tcf/year.

Table A6-6
Gas Distribution Charges

Average Canadian Distribution Charges by Region/Market

		Distribution Charge (\$ C 1991/GJ)
Western Canada	Core	1.49
	Noncore	0.21
	Electric Gas/Oil	0.21
Eastern Canada	Core	2.93
	Noncore	0.71
	Electric Gas/Oil	0.71
Ontario	Core	2.24
	Noncore	0.41
	Electric Gas/Oil	0.41
British Columbia	Core	2.49
	Noncore	0.71
	Electric Gas/Oil	0.71

Table A6-6 (Continued)
Gas Distribution Charges

Average U.S. Distribution Charges by Region/Market		
		Distribution Charge (\$ C 1991/GJ)
Pacific Northwest	Core	3.45
	Noncore	0.62
	Electric Gas/Oil	0.43
California	Core	2.65
	Noncore	0.62
	Electric Gas/Oil	0.43
California - EOR	Noncore	0.00
West North Central and Mountain	Core	1.75
	Noncore	0.32
	Electric Gas/Oil	0.27
West South Central	Core	1.97
	Noncore	0.15
	Electric Gas/Oil	0.15
East North Central	Core	2.03
	Noncore	0.62
	Electric Gas/Oil	0.37
East South Central	Core	1.98
	Noncore	0.15
	Electric Gas/Oil	0.11
South Atlantic	Core	2.55
	Noncore	0.33
	Electric Gas/Oil	0.11
Mid-Atlantic	Core	3.31
	Noncore	0.62
	Electric Gas/Oil	0.22
New England	Core	3.05
	Noncore	0.62
	Electric Gas/Oil	0.19
Alaska	Core	0.06
	Electric Gas/Oil	0.06

Table A6-7

Connection Rates for Reserves Additions as a Function of Price/Demand Factor

Current Technology Case			
Year	Price/Demand Factor		
	1	2	3
Connection Rates - %			
1	20	40	50
2	20	30	30
3	20	20	20
4	20	10	0
5	20	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
Total	100	100	100

High Technology Case			
Year	Price/Demand Factor		
	1	2	3
Connection Rates - %			
1	20	40	50
2	20	30	50
3	20	20	0
4	20	10	0
5	20	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
Total	100	100	100

Table A6-8

Connection Rates for B.C. Non-Producing Reserves

Current and High Technology Cases

Year	Pipeline System		
	Fort Nelson	Fort St. John	Pine River
	Mainline		
	Other		
Connection Rates - %			
1	10	10	0
2	25	15	0
3	45	30	50
4	5	15	20
5	5	15	20
6	5	10	10
7	5	5	0
8	0	0	0
9	0	0	0
10	0	0	0
Total	100	100	100

Table A6-9

B.C. Productive Capacity from Established Reserves

Current Technology Case

Year	Non-Associated	Solution	Sub-Total Producing	Non-Producing	Total Established
	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³
1993	15906	911	16817	464	17281
1994	16757	812	17569	1376	18945
1995	15014	724	15738	4034	19771
1996	13374	646	14020	4808	18828
1997	11583	576	12159	5552	17710
1998	10463	513	10976	5897	16873
1999	9404	457	9861	5942	15803
2000	7828	408	8236	5678	13914
2001	6614	364	6978	5372	12350
2002	5762	324	6086	5073	11158
2003	4925	289	5214	4668	9882
2004	3917	258	4175	4212	8387
2005	3117	230	3347	3749	7096
2006	2871	205	3076	3231	6307
2007	2557	183	2740	2636	5376
2008	2225	163	2388	2074	4462
2009	1918	145	2063	1691	3753
2010	1650	129	1779	1382	3161

High Technology Case

Year	Non-Associated	Solution	Sub-Total Producing	Non-Producing	Total Established
	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³
1993	15906	911	16817	464	17281
1994	16757	812	17569	1376	18945
1995	15032	724	15756	4034	19790
1996	13386	646	14032	4808	18840
1997	11597	576	12173	5552	17725
1998	10483	513	10996	5899	16895
1999	9419	457	9876	5944	15820
2000	7839	408	8247	5686	13933
2001	6621	364	6985	5380	12365
2002	5771	324	6095	5080	11175
2003	4932	289	5221	4674	9896
2004	3921	258	4179	4218	8397
2005	3142	230	3372	3754	7126
2006	2860	205	3065	3235	6300
2007	2556	183	2739	2639	5378
2008	2220	163	2383	2076	4460
2009	1912	145	2057	1692	3750
2010	1645	129	1774	1384	3158

Table A6-10

Connection Rates for Alberta Non-Producing Reserves

Year	Current Technology Case	High Technology Case
	%	%
1	5	5
2	15	5
3	20	5
4	20	5
5	15	5
6	15	10
7	5	10
8	2	10
9	2	10
10	1	10
11	0	10
12	0	5
13	0	2
14	0	2
15	0	2
16	0	2
17	0	2
18	0	0
19	0	0
20	0	0
Total	100	100

Table A6-11

Alberta Productive Capacity from Established Reserves

Current Technology Case							
Year	Producing	Cycling	Associated & Solution	Shallow	Sub-Total Producing	Non-Producing	Total Established
	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³
1993	83613	8878	15220	7725	115436	1760	117196
1994	93841	8736	15220	7565	125362	5295	130657
1995	82780	8638	15220	7367	114005	10618	124623
1996	69500	8108	15220	7175	100003	17738	117742
1997	58325	7787	15220	6962	88294	23125	111419
1998	48614	7133	13845	6720	76312	28491	104803
1999	39340	5523	12594	6464	63920	32040	95961
2000	31468	5478	11456	6248	54650	33720	88370
2001	24785	4821	10421	5632	45659	34153	79811
2002	19374	3999	9479	5235	38088	34134	72222
2003	15479	3455	8623	4882	32438	33113	65551
2004	12742	2721	7844	4556	27864	31039	58903
2005	10496	2313	7135	4255	24199	28331	52529
2006	8456	2079	6490	4029	21055	25234	46289
2007	6815	2245	5904	3753	18717	21920	40637
2008	5682	2081	5370	3476	16609	18525	35134
2009	4873	1602	4885	3011	14372	15331	29703
2010	4145	1081	4444	2808	12479	12514	24993

High Technology Case							
Year	Producing	Cycling	Associated & Solution	Shallow	Sub-Total Producing	Non-Producing	Total Established
	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³
1993	83613	8878	15220	7725	115436	1766	117202
1994	95559	8736	15220	7565	127080	3548	130628
1995	84229	8638	15220	7367	115454	5343	120797
1996	70384	8108	15220	7175	100887	7148	108036
1997	58911	7787	15220	6962	88880	8941	97821
1998	49087	7133	13845	6720	76785	12485	89270
1999	39751	5523	12594	6464	64331	16020	80351
2000	31763	5478	11456	6248	54945	19539	74484
2001	24923	4821	10421	5632	45797	22966	68762
2002	19391	3999	9479	5235	38105	26104	64209
2003	15493	3455	8623	4882	32452	28966	61419
2004	12620	2721	7844	4556	27742	29925	57667
2005	10070	2313	7135	4255	23773	29645	53418
2006	7844	2079	6490	4029	20443	29015	49457
2007	6218	2245	5904	3753	18120	27929	46050
2008	5150	2081	5370	3476	16077	26509	42586
2009	4393	1602	4885	3011	13892	24920	38812
2010	3728	1081	4444	2808	12062	22440	34501

Table A6-12

Saskatchewan Productive Capacity from Established Reserves

Current and High Technology Cases

Year	Non-Associated	Shallow	Associated & Solution	Miscellaneous	Total Established
	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³
1993	1168	4318	355	1754	7595
1994	1349	4098	316	1696	7458
1995	1156	3865	270	1689	6980
1996	992	3620	237	1485	6334
1997	802	3391	234	1241	5667
1998	615	3175	218	1055	5063
1999	494	2940	206	905	4545
2000	411	2730	201	773	4115
2001	329	2498	194	659	3680
2002	270	2295	192	563	3320
2003	236	2088	153	481	2958
2004	212	1914	126	411	2663
2005	193	1758	104	351	2406
2006	173	1615	86	300	2174
2007	150	1483	73	256	1962
2008	93	1325	57	219	1694
2009	82	1188	48	187	1505
2010	76	1019	41	160	1295

Table A6-13
Reserves Additions by Province

Current Technology Case				
	B.C.	Alberta	Saskatchewan	Total
	10 ⁹ m ³	10 ⁹ m ³	10 ⁹ m ³	10 ⁹ m ³
1993	11	34	7	41
1994	14	69	7	76
1995	18	91	7	98
1996	24	86	6	92
1997	30	80	6	86
1998	35	76	5	81
1999	37	87	5	92
2000	38	113	4	117
2001	40	111	4	115
2002	41	110	3	114
2003	42	110	3	113
2004	43	109	3	112
2005	44	109	1	111
2006	38	91	0	91
2007	27	63	0	63
2008	27	63	0	63
2009	23	54	0	54
2010	23	54	0	54
Total	555	1510	61	1571

High Technology Case				
	B.C.	Alberta	Saskatchewan	Total
	10 ⁹ m ³	10 ⁹ m ³	10 ⁹ m ³	10 ⁹ m ³
1993	10	22	7	39
1994	10	21	7	39
1995	11	21	7	39
1996	11	21	6	39
1997	17	29	6	52
1998	30	55	5	90
1999	34	90	5	129
2000	38	87	4	129
2001	39	99	4	142
2002	41	97	3	142
2003	42	97	3	142
2004	43	109	3	155
2005	44	122	1	168
2006	45	123	0	168
2007	46	134	0	180
2008	47	146	0	193
2009	48	145	0	193
2010	48	158	0	206
Total	604	1577	61	2242

Table A6-14

Total Canada Productive Capacity - Current Technology Case

Year	Total Productive Capacity from Established Reserves					Total Productive Capacity from Reserves Additions					Total Canada 10 ⁶ m ³	Total Production 10 ⁶ m ³	Adjusted Productive Capacity 10 ⁶ m ³
	B.C. 10 ⁶ m ³	Alberta 10 ⁶ m ³	Saskatchewan 10 ⁶ m ³	Ontario 10 ⁶ m ³	Sub-Total 10 ⁶ m ³	B.C. 10 ⁶ m ³	Alberta 10 ⁶ m ³	Sask. 10 ⁶ m ³	Sub-Total 10 ⁶ m ³	Frontier 10 ⁶ m ³			
1993	17281	117196	7595	500	142572	344	1057	213	1614	0	144186	125745	144192
1994	18945	130657	7458	500	157561	821	2922	489	4231	0	161792	129923	161655
1995	19771	124623	6980	500	151874	1491	5940	819	8249	0	160124	134737	163979
1996	18828	117742	6334	450	143354	2443	10008	1191	13642	0	156996	139047	161869
1997	17710	111419	5667	405	135202	3770	15034	1595	20399	0	155601	144041	163071
1998	16873	104803	5063	365	127104	5628	21179	2070	28878	0	155982	148104	165503
1999	15803	95961	4545	328	116637	8398	28878	2559	39834	0	156471	151703	169618
2000	13914	88370	4115	295	106695	11749	37856	3019	52623	0	159318	155725	173599
2001	12350	79811	3680	266	96107	15325	47185	3406	65916	0	162023	159192	178682
2002	11158	72222	3320	239	86938	18064	54197	3621	75882	0	162821	162133	179670
2003	9882	65551	2958	215	78606	20539	60571	3712	84823	0	163429	164575	181035
2004	8387	58903	2663	194	70146	23273	67227	3770	94270	0	164416	166176	183108
2005	7096	52529	2406	174	62205	26224	74136	3764	104124	0	166329	168762	185496
2006	6307	46289	2174	157	54927	29416	81347	3660	114423	0	169350	172064	189143
2007	5376	40637	1962	141	48116	30936	84088	3410	118434	3289	169839	166871	189738
2008	4462	35134	1694	127	41417	31807	85120	3103	120030	3289	164735	162071	184997
2009	3753	29703	1505	114	35075	31709	83782	2770	118262	3289	156626	156973	176894
2010	3161	24993	1295	103	29553	31482	82149	2433	116063	3289	148905	150155	169035

Table A6-15

Total Canada Productive Capacity - High Technology Case

Total Productive Capacity from Established Reserves						Total Productive Capacity from Reserves Additions							
Year	B.C. 10 ⁶ m ³	Alberta 10 ⁶ m ³	Saskatchewan 10 ⁶ m ³	Ontario 10 ⁶ m ³	Sub-Total 10 ⁶ m ³	B.C. 10 ⁶ m ³	Alberta 10 ⁶ m ³	Sask. 10 ⁶ m ³	Sub-Total 10 ⁶ m ³	Frontier 10 ⁶ m ³	Total Canada 10 ⁶ m ³	Total Production 10 ⁶ m ³	Adjusted Productive Capacity 10 ⁶ m ³
1993	117202	17281	7595	500	142578	686	314	213	1213	0	143792	125745	143791
1994	130628	18945	7458	500	157531	1531	705	490	2726	0	160257	127787	163314
1995	120797	19790	6980	500	148067	2525	1189	821	4535	0	152602	130031	165443
1996	108036	18840	6334	450	133660	3669	1760	1194	6624	0	140284	132202	160724
1997	97821	17725	5667	405	121618	5083	2515	1599	9197	0	130815	134391	158010
1998	89270	16895	5063	365	111593	7337	3727	2075	13140	0	124733	135694	156710
1999	80351	15820	4545	328	101045	10636	5297	2494	18427	0	119472	136317	155516
2000	74484	13933	4115	295	92827	14927	7269	2857	25052	0	117880	137303	151211
2001	68762	12365	3680	266	85073	21904	10248	3214	35366	0	120439	139138	152482
2002	64209	11175	3320	239	78942	30544	13864	3520	47929	0	126871	141613	155920
2003	61419	9896	2958	215	74487	39616	17606	3744	60966	0	135453	143602	160719
2004	57667	8397	2663	194	68921	48158	21100	3870	73128	0	142049	148117	164897
2005	53418	7126	2406	174	63124	55733	23954	3843	83530	0	146654	151991	166817
2006	49457	6300	2174	157	58088	64387	27058	3691	95135	0	153224	154241	170550
2007	46050	5378	1962	141	53531	75239	30728	3446	109413	0	162944	160161	177876
2008	42586	4460	1694	127	48867	84644	33557	3149	121350	0	170217	164680	183161
2009	38812	3750	1505	114	44181	92838	35846	2831	131515	0	175696	169514	186814
2010	34501	3158	1295	103	39057	100622	37827	2500	140950	0	180007	173914	190277

Table A6-16

Gas-Directed Exploratory Drilling Activity by Province

Current Technology Case				
Year	B.C. 10 ⁶ m	Alberta 10 ⁶ m	Saskatchewan 10 ⁶ m	Total 10 ⁶ m
1994	0.25	1.80	0.19	2.24
1995	0.32	2.45	0.18	2.95
1996	0.44	2.36	0.16	2.97
1997	0.57	2.27	0.15	2.98
1998	0.69	2.19	0.13	3.01
1999	0.75	2.57	0.12	3.45
2000	0.80	3.40	0.11	4.32
2001	0.88	3.45	0.10	4.43
2002	0.93	3.53	0.09	4.55
2003	0.98	3.61	0.08	4.67
2004	1.04	3.68	0.07	4.79
2005	1.10	3.78	0.04	4.92
2006	0.98	3.22	0.00	4.19
2007	0.71	2.28	0.00	2.99
2008	0.72	2.31	0.00	3.03
2009	0.63	2.01	0.00	2.63
2010	0.64	2.03	0.00	2.67

High Technology Case				
Year	B.C. 10 ⁶ m	Alberta 10 ⁶ m	Saskatchewan 10 ⁶ m	Total 10 ⁶ m
1994	0.17	0.53	0.18	0.89
1995	0.18	0.51	0.17	0.86
1996	0.18	0.51	0.15	0.84
1997	0.27	0.67	0.13	1.07
1998	0.48	1.25	0.11	1.84
1999	0.53	2.01	0.09	2.64
2000	0.59	1.90	0.08	2.57
2001	0.59	2.13	0.07	2.79
2002	0.61	2.04	0.06	2.71
2003	0.61	1.97	0.05	2.63
2004	0.63	2.26	0.04	2.94
2005	0.66	2.59	0.02	3.27
2006	0.69	2.65	0.00	3.34
2007	0.72	2.97	0.00	3.69
2008	0.75	3.31	0.00	4.05
2009	0.77	3.36	0.00	4.14
2010	0.79	3.75	0.00	4.53

Table A6-17
Marketable Conventional Gas

(Trillion Cubic Feet)

	Cumulative Production ¹	Remaining Reserves ¹	Discovered Resources	Initial Discovered	Undiscovered Resources	Ultimate Resources
Alberta	64.7	56.0	-	120.7	75.1	195.8
British Columbia	8.9	8.4	-	17.3	33.2	50.5
Saskatchewan	2.5	2.8	-	5.3	2.2	7.5
South YT/NWT	0.3	0.2	-	0.5	0.5	1.0
Sub-Total (WCSB)	76.4	67.4	-	143.8	111.0	254.8
Frontier and Other Territories ²	-	-	0.7	0.7	9.8	10.5
Mack/Beaufort	-	-	12.8	12.8	55.6	68.4
Nova Scotia	-	-	5.4	5.4	12.8	18.2
Grand Banks/Lab	-	-	8.7	8.7	36.4	45.1
Arctic Islands	-	-	14.4	14.4	80.1	94.5
Other Frontier ³	-	-	-	-	89.6	89.6
Ontario	1.1	0.3	-	1.4	-	1.4
Sub-Total (Frontier and Other)	1.1	0.3	41.9	43.3	284.3	327.7
Total for Canada	77.5	67.7	41.9	187.1	395.3	582.5

¹ Cumulative Production and reserves as of 31 December 1992.

² Excludes that portion assigned to the Western Canada Sedimentary Basin.

³ Other Frontier includes: Georges Bank, Laurentian Basin, E. Newfoundland Basin, S. Grand Banks, Maritimes Basin, Hudson Bay, Baffin Bay, and offshore British Columbia.

Sources:

WCSB production and reserves from provincial agencies and NEB.

Frontier and Other production, reserves and resources from NEB, CNSOPB and CNOPB.

Undiscovered resource estimates: All estimates are NEB 1993, however studies by the provincial agencies and Geological Survey of Canada were used in deriving estimates.

Table A6-18

Distribution of Discovered Initial Marketable Gas Reserves

	Prior to 1980	1980 - 1992	Total
All Pools			
Number of Pools	13074	12764	25838
Initial Reserves (Tcf)	116.9	26.9	143.8
Ave. Pool Size (Bcf)	8.9	2.1	5.6
Pools > 100 BCF (% of Total)			
Number of Pools	186	9	195 (0.8 %)
Initial Reserves (Tcf)	72.3	2.9	75.2 (52 %)
Ave. Pool Size (Bcf)	389	323	386

Figure A6-3
Estimate of Productive Capacity for B.C. by Source – Current Technology

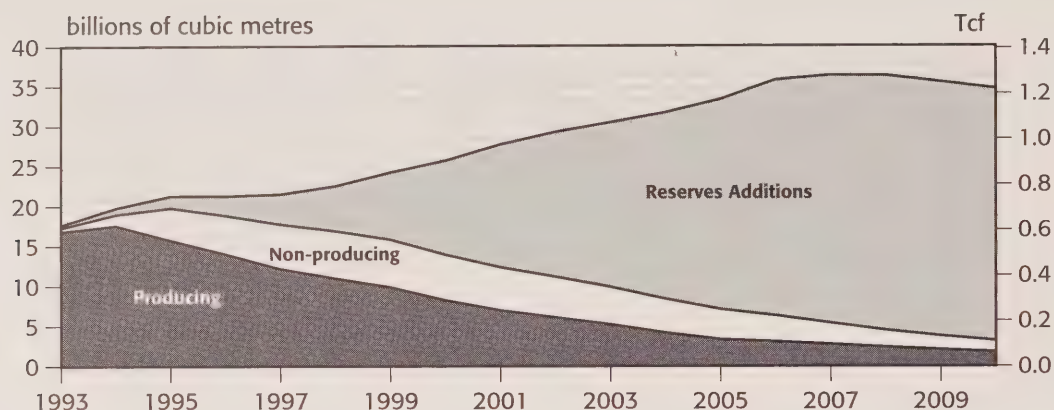


Figure A6-4
Estimate of Productive Capacity for Alberta by Source – Current Technology

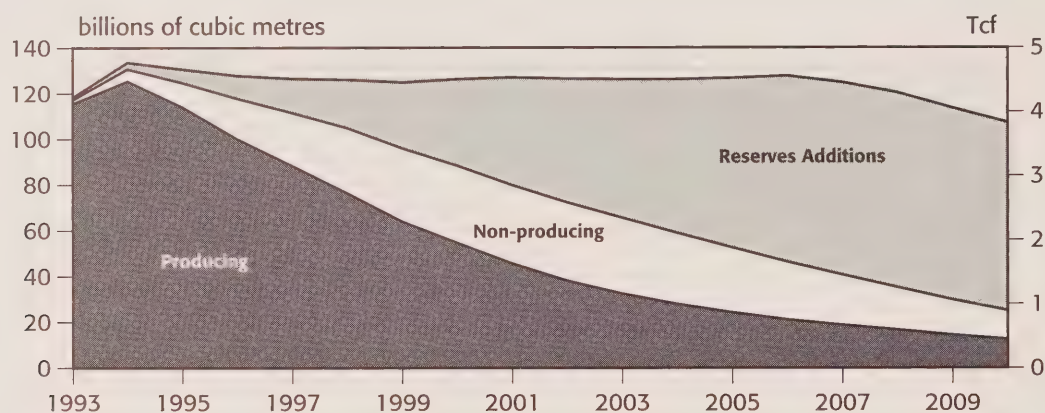


Figure A6-5
Estimate of Productive Capacity for Saskatchewan by Source – Current Technology

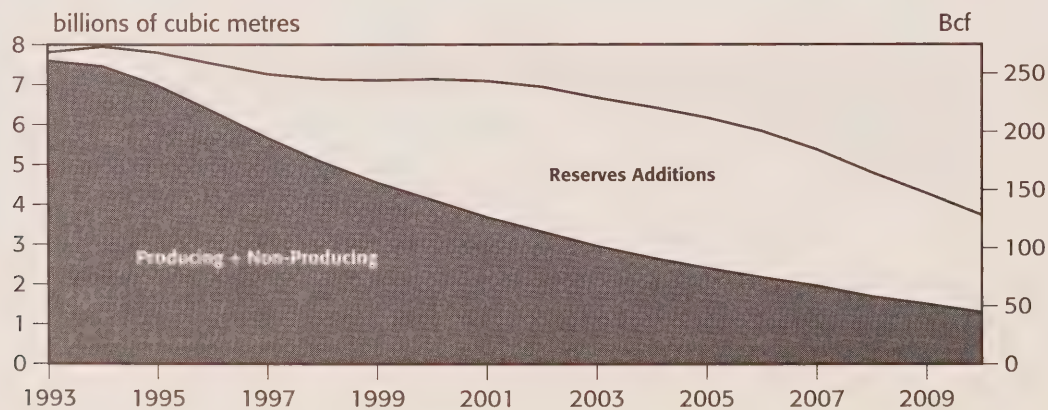


Figure A6-6
Estimate of Productive Capacity for B.C. by Source – High Technology

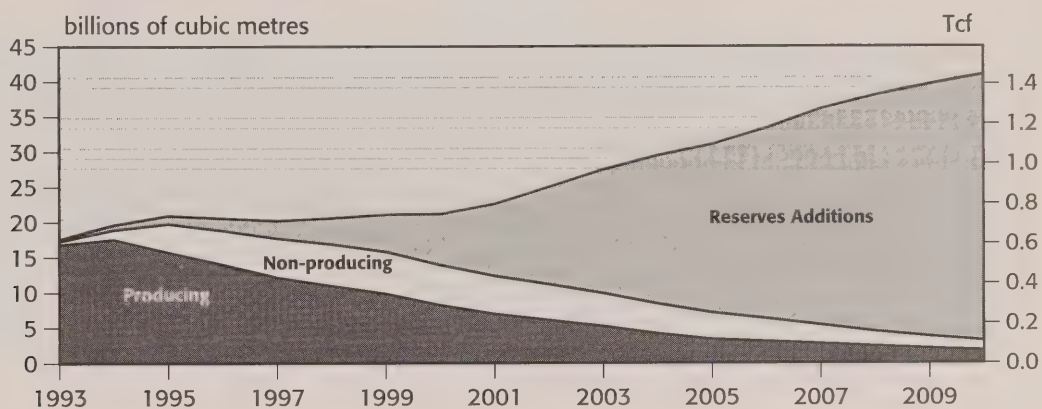


Figure A6-7
Estimate of Productive Capacity for Alberta by Source – High Technology

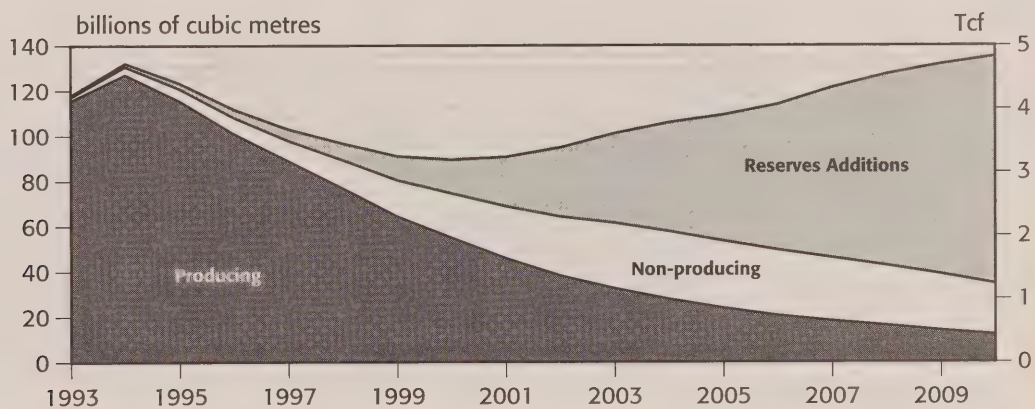


Figure A6-8
Estimate of Productive Capacity for Saskatchewan by Source – High Technology

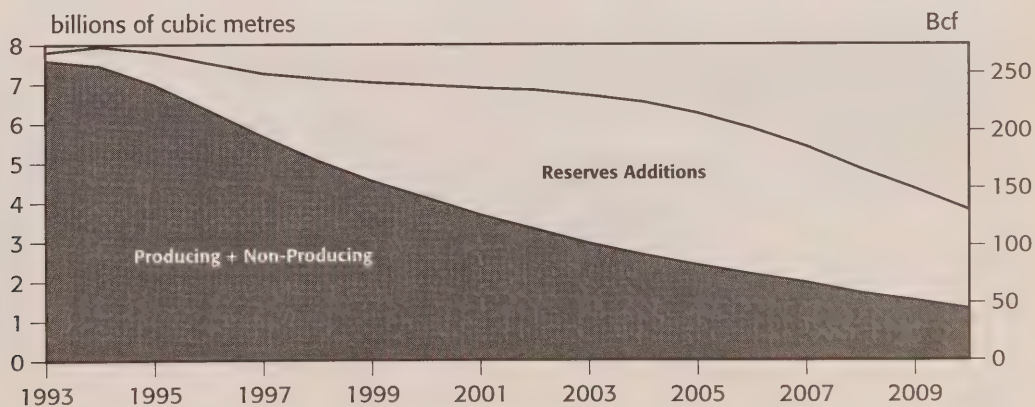


Figure A6-9
Projection of Productive Capacity Canada – Current Technology

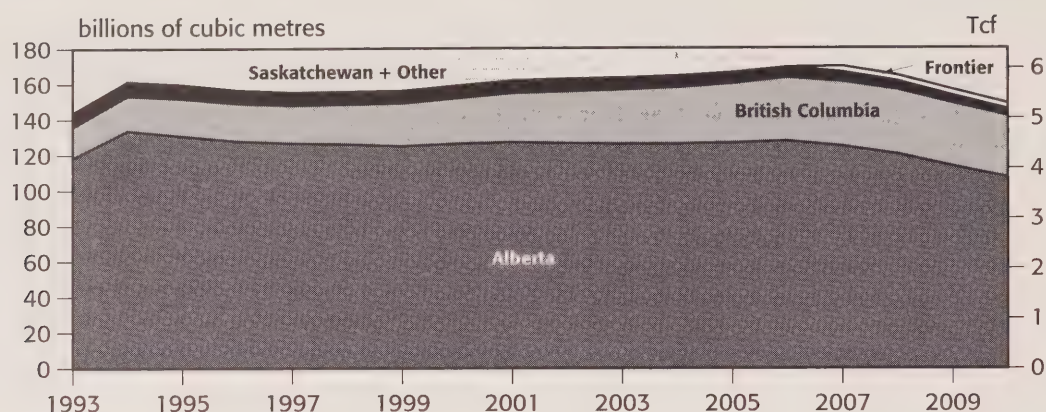


Figure A6-10
Projection of Productive Capacity Canada – High Technology

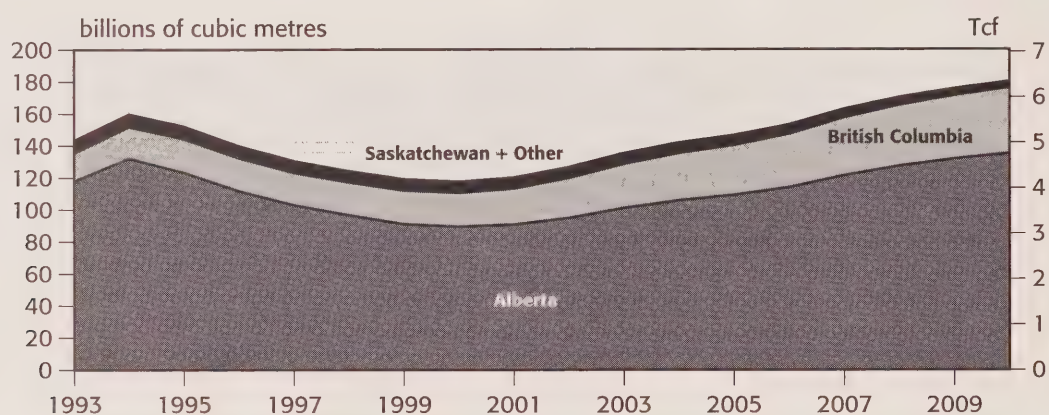


Figure A6-11
Projection of Natural Gas Production Canada – Current Technology

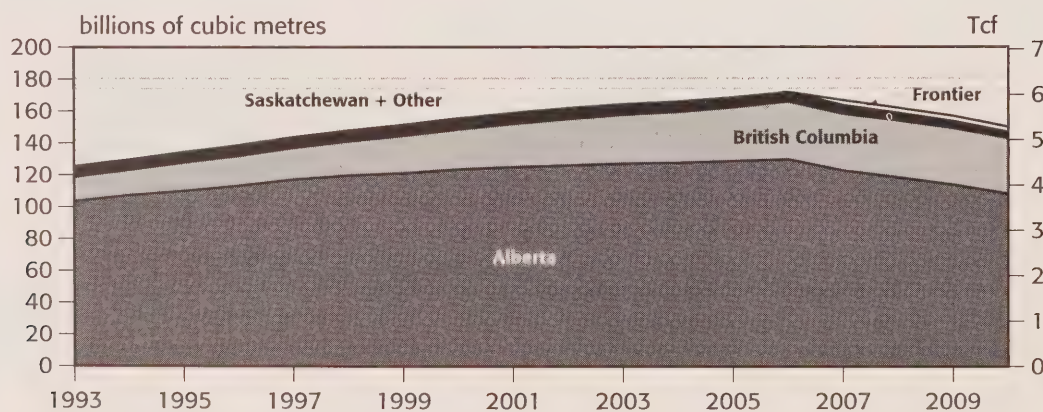


Figure A6-12
 Projection of Natural Gas Production Canada – High Technology

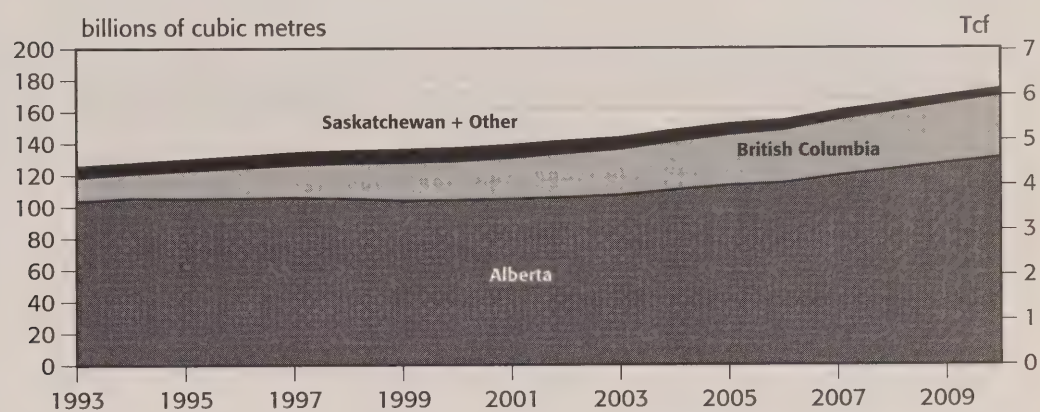
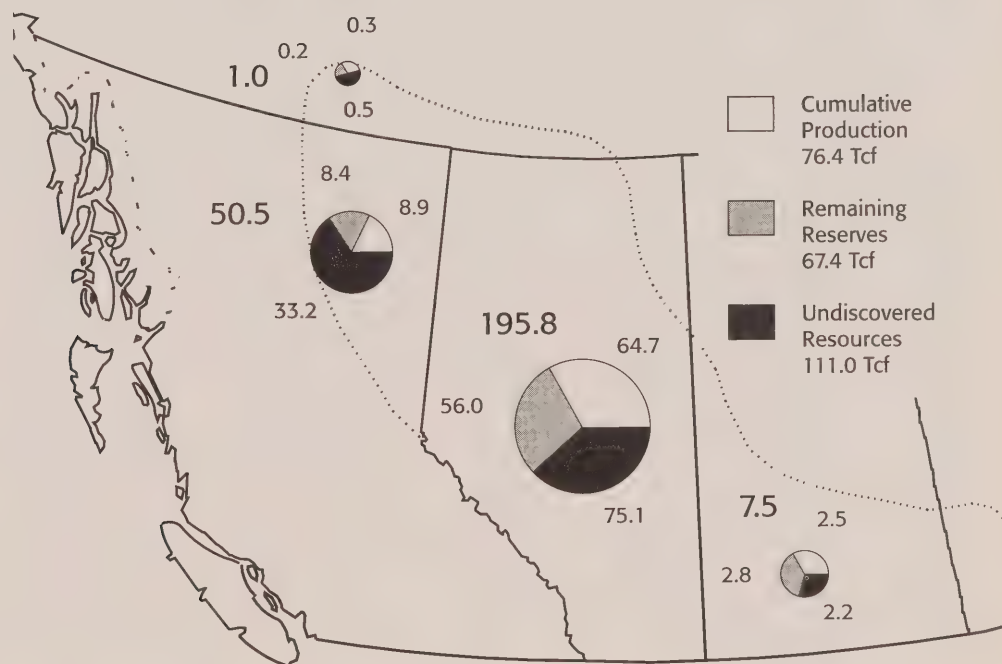


Figure A6-13
 Western Canada Sedimentary Basin Ultimate Marketable Gas (Tcf)



Appendix 7 - Crude Oil and Equivalent

Table A7-1

Price Projections at Various Locations (1993 dollars)

	(US\$/bbl)	(C\$/bbl)								
	WTI at Cushing	WTI at Chicago[a]	Light Alta Field[b]	Light/Heavy Differentials[c]		Light/Bitumen Differentials[c]		Bitumen Alta Field[d]		E. Coast Offshore[e]
1993	18.50	24.05	21.07	5.75	(5.75)	9.27	(9.27)	11.80	11.80	22.78
1994	19.00	24.68	21.70	5.00	(5.00)	8.06	(8.06)	13.64	13.64	23.41
1995	19.25	25.00	22.02	5.25	(5.25)	8.47	(8.47)	13.55	13.55	23.73
1996	19.50	25.32	22.34	5.50	(5.50)	8.87	(8.87)	13.47	13.47	24.05
1997	19.75	25.63	22.65	5.75	(5.75)	9.27	(9.27)	13.38	13.38	24.36
1998	20.00	25.95	22.97	6.00	(6.40)	9.68	(10.32)	13.29	12.65	24.68
1999	20.25	26.27	23.29	6.25	(7.15)	10.08	(11.53)	13.21	11.75	25.00
2000	20.50	26.58	23.60	6.50	(8.00)	10.48	(12.90)	13.12	10.70	25.31
2001	20.75	26.90	23.92	6.50	(8.15)	10.48	(13.15)	13.43	10.77	25.63
2002	21.00	27.22	24.24	6.50	(8.30)	10.48	(13.39)	13.75	10.85	25.95
2003	21.25	27.53	24.55	6.50	(8.45)	10.48	(13.63)	14.07	10.92	26.26
2004	21.50	27.85	24.87	6.50	(8.60)	10.48	(13.87)	14.38	11.00	26.58
2005	21.75	28.16	25.18	6.50	(8.75)	10.48	(14.11)	14.70	11.07	26.89
2006	22.00	28.48	25.50	6.50	(8.90)	10.48	(14.35)	15.02	11.15	27.21
2007	22.25	28.80	25.82	6.50	(9.05)	10.48	(14.60)	15.33	11.22	27.53
2008	22.50	29.11	26.13	6.50	(9.20)	10.48	(14.84)	15.65	11.30	27.84
2009	22.75	29.43	26.45	6.50	(9.35)	10.48	(15.08)	15.97	11.37	28.16
2010	23.00	29.75	26.77	6.50	(9.50)	10.48	(15.32)	16.28	11.44	28.48

	(US\$/bbl)	(C\$/m ³)								
1993	18.50	151.35	132.60	36.18	(36.17)	58.36	(58.36)	74.23	74.23	143.36
1994	19.00	155.33	136.58	31.46	(31.45)	50.75	(50.75)	85.83	85.83	147.34
1995	19.25	157.32	138.57	33.04	(33.02)	53.29	(53.29)	85.28	85.28	149.33
1996	19.50	159.31	140.56	34.61	(34.60)	55.82	(55.82)	84.74	84.74	151.32
1997	19.75	161.31	142.55	36.18	(36.17)	58.36	(58.36)	84.19	84.19	153.31
1998	20.00	163.30	144.54	37.76	(40.26)	60.90	(64.96)	83.64	79.58	155.30
1999	20.25	165.29	146.54	39.33	(44.97)	63.44	(72.57)	83.10	73.96	157.30
2000	20.50	167.28	148.53	40.90	(50.32)	65.97	(81.20)	82.55	67.33	159.29
2001	20.75	169.27	150.52	40.90	(51.26)	65.97	(82.72)	84.54	67.80	161.28
2002	21.00	171.26	152.51	40.90	(52.21)	65.97	(84.24)	86.54	68.27	163.27
2003	21.25	173.25	154.50	40.90	(53.15)	65.97	(85.77)	88.53	68.73	165.26
2004	21.50	175.25	156.49	40.90	(54.09)	65.97	(87.29)	90.52	69.20	167.25
2005	21.75	177.24	158.48	40.90	(55.04)	65.97	(88.81)	92.51	69.67	169.24
2006	22.00	179.23	160.48	40.90	(55.98)	65.97	(90.33)	94.50	70.14	171.24
2007	22.25	181.22	162.47	40.90	(56.92)	65.97	(91.86)	96.49	70.61	173.23
2008	22.50	183.21	164.46	40.90	(57.87)	65.97	(93.38)	98.48	71.08	175.22
2009	22.75	185.20	166.45	40.90	(58.81)	65.97	(94.90)	100.48	71.55	177.21
2010	23.00	187.19	168.44	40.90	(59.76)	65.97	(96.42)	102.47	72.02	179.20

- Notes: [a] Based on a \$0.79 US exchange and a US\$0.50/bbl transportation cost from Cushing to Chicago.
[b] Transportation cost to Chicago includes gathering cost of C\$1.27/bbl and IPL toll from Edmonton of C\$ 1.71/bbl.
[c] Numbers in brackets are for the High Tech case. Bitumen differentials are derived from heavy oil differentials based on an average diluent content of 38 percent and diluent prices at par with light oil prices.
[d] Calculated by subtracting projected light/bitumen price differentials from light oil prices at wellhead.
[e] Differential between WTI at Chicago and prices in East Coast offshore estimated at C\$1.27/bbl.

Table A7-2

Conventional Oil Resources of the WCSB as of 31/12/92

Millions of Cubic Metres

Discovered Resources as of 31/12/92(1)										Undiscovered Resources (2)				Ultimate Potential Recovery (3)			
		Improved Oil			Initial Estab. Reserves		Future Imp. Oil		Oil-in-place	Improved Oil			Oil-in-place	Improved Oil			Oil-in-place
		Primary	Rec.	Rec.			Rec.			Primary	Rec.	Total		Primary	Rec.	Total	
B.C.	Light	64	32	96			18		284	14	7	21	60	81	54	135	344
Alberta	Light	1406	641	2047			334		6909	314	137	451	1471	1789	1043	2832	8380
	Heavy	151	64	215			138		1543	71	27	99	661	238	213	451	2204
Saskatchewan	Light	131	44	176			40		1021	30	9	40	217	171	84	255	1239
	Heavy	196	154	350			162		2594	95	66	161	1111	317	356	673	3706
Manitoba	Light	25	11	36			3		146	6	2	8	31	33	15	47	177
Total	Light	1627	728	2355			395		8360	364	155	519	1780	2075	1195	3269	10140
	Heavy	347	218	565			300		4138	166	93	260	1772	555	570	1125	5910
	Total	1974	946	2920			695		12498	531	248	779	3552	2630	1764	4394	16050

(1) The total includes both initial primary and improved oil recovery reserves and future improved oil recovery for established pools.
The total potential for established pools can be compared to the oil-in-place to obtain an estimate of the fraction of the in-place resource which is expected to be recovered in existing pools.

(2) Undiscovered resources includes potential extensions to existing pools and new discoveries.

(3) The total ultimate potential is the sum of the potential from established pools and undiscovered resources and can be compared to the aggregate oil in place to obtain an estimate of the fraction of the overall in-place resource which is expected to be recovered.

Table A7-3

Initial and Remaining Established Reserves of Conventional Crude Oil - Total Canada

(Millions of Cubic Metres)

Historical Data

	Initial Reserves of Crude Oil				Remaining Reserves of Crude Oil			
	WCSB Light	WCSB Heavy	FRONTIER Light	Total	WCSB Light	WCSB Heavy	FRONTIER Light	Total
1965	1785	175	10	1970	1418	110	8	1536
1966	1854	185	10	2049	1439	111	8	1558
1967	1957	197	10	2164	1497	113	8	1619
1968	2046	212	10	2268	1538	117	8	1663
1969	2098	227	10	2335	1538	121	8	1667
1970	2110	238	10	2359	1490	121	8	1620
1971	2137	250	10	2398	1452	121	7	1580
1972	2147	260	10	2417	1394	119	7	1521
1973	2147	270	10	2427	1304	117	7	1428
1974	2128	276	10	2414	1202	111	7	1320
1975	1891	284	10	2185	895	111	7	1012
1976	1881	296	10	2186	820	114	6	940
1977	1911	308	10	2229	789	114	6	909
1978	1930	326	10	2265	747	114	6	867
1979	1926	352	10	2288	673	128	6	808
1980	1926	379	10	2314	610	144	6	760
1981	1971	356	10	2336	593	117	5	716
1982	2015	366	40	2421	581	119	36	736
1983	2046	386	40	2471	560	124	35	719
1984	2125	404	40	2569	578	128	35	741
1985	2177	419	40	2636	575	128	34	737
1986	2229	434	35	2699	573	130	28	731
1987	2253	456	35	2744	543	136	27	705
1988	2267	477	35	2779	501	140	25	666
1989	2281	488	119	2888	464	134	107	705
1990	2306	514	119	2939	438	145	105	688
1991	2340	535	124	2999	422	147	108	677
1992	2367	565	142	3074	402	155	123	680

Source: National Energy Board

Note: Reserves for Ontario are included in the WCSB totals.

Table A7-4

Historical Data and Projections for Conventional Light and Heavy Crude Oil
Oil-Directed Exploratory Drilling and Additions of In-Place Resources

	Drilling (10 ⁶ m)	Resources Added (10 ⁶ m ³)	Additions Rate (m ³ per metre)
1965	1.19	444.0	372.2
1966	1.08	396.9	366.6
1967	1.12	228.8	205.0
1968	1.22	373.0	306.3
1969	1.25	204.2	163.3
1970	0.60	87.6	146.3
1971	0.65	150.1	232.0
1972	0.48	119.6	246.8
1973	0.57	187.8	331.3
1974	0.36	120.1	333.9
1975	0.30	148.7	490.4
1976	0.39	110.6	280.4
1977	0.59	206.3	348.0
1978	0.97	355.1	365.9
1979	1.33	236.3	177.2
1980	1.77	328.9	185.9
1981	1.46	209.5	143.5
1982	1.52	359.6	237.0
1983	1.64	438.9	268.3
1984	2.48	477.8	192.7
1985	3.03	404.9	133.5
1986	1.61	696.0	432.7
1987	1.94	259.5	133.8
1988	1.94	321.0	165.3
1989	1.23	32.3	26.2
1990	1.30	262.17	202.2
1991	1.21	64.61	53.6
1992	1.12	86.47	77.3

	Current Tech	High Tech	Current Tech	High Tech	Current Tech	High Tech
1994	1.46	1.46	186.04	186.04	127.4	127.4
1995	1.46	1.53	176.80	185.41	121.1	120.9
1996	1.46	1.61	168.03	183.90	115.1	114.5
1997	1.46	1.68	159.70	181.57	109.4	108.1
1998	1.46	1.75	151.78	178.48	104.0	101.9
1999	1.46	1.83	144.26	174.70	98.8	95.7
2000	1.46	1.90	137.12	170.30	93.9	89.7
2001	1.46	1.90	130.33	159.42	89.3	84.0
2002	1.46	1.90	123.88	149.25	84.8	78.6
2003	1.46	1.90	117.75	139.72	80.6	73.6
2004	1.46	1.90	111.92	130.81	76.7	68.9
2005	1.46	1.90	106.39	122.47	72.9	64.5
2006	1.46	1.90	101.13	114.67	69.3	60.4
2007	1.46	1.90	96.13	107.36	65.8	56.6
2008	1.46	1.90	91.38	100.53	62.6	53.0
2009	1.46	1.90	86.87	94.13	59.5	49.6
2010	1.46	1.90	82.58	88.14	56.6	46.4

Table A7-5

Full Cycle Supply Costs of Crude Oil Reserves Additions from Exploratory Activity
in the WCSB

	Initial Primary Reserves (10 ⁹ m ³)	Supply Cost (C\$1993/m ³)
1965	1043.3	3.76
1966	1158.7	3.53
1967	1247.3	3.56
1968	1333.4	4.93
1969	1336.4	9.51
1970	1335.2	16.57
1971	1369.2	12.83
1972	1377.2	12.36
1973	1380.5	41.51
1974	1384.0	27.78
1975	1395.5	19.39
1976	1408.3	12.98
1977	1429.4	14.39
1978	1454.8	21.81
1979	1476.0	43.50
1980	1478.4	46.30
1981	1516.1	25.61
1982	1568.2	17.75
1983	1615.0	17.32
1984	1698.5	22.27
1985	1741.9	28.73
1986	1784.9	25.13
1987	1812.3	29.14
1988	1831.5	46.63
1989	1848.0	27.16
1990	1878.2	26.95
1991	1906.9	15.80
1992	1948.6	18.68

	Current Tech	High Tech
1950	18.4	18.2
2000	19.0	18.6
2100	20.6	19.7
2200	22.7	21.0
2300	25.5	22.7
2400	30.2	25.0
2450	36.3	26.5
2480	45.0	27.5

Table A7-6

Established Reserves of Conventional Crude Oil and Related Productive Capacity by Pipeline and Region - Light Crude Oil

	Initial Established Reserves at 92/12/31 (Millions of Cubic Metres)	Cumulative Production to 92/12/31	Remaining Established Reserves at 92/12/31	Productive Capacity from Remaining Reserves at 92/12/31					
				1993	1994	1995	2000	2005	2010
							(Cubic Metres per Day)		
Arctic Islands									
Bent Horn	1.000	0.264	0.736	133	133	133	133	81	38
Northwest Territories									
Norman Wells	37.500	17.736	19.764	5100	5300	5300	3063	1447	683
British Columbia									
Suncor (Blueberry Taylor)	23.237	18.051	5.186	1826	1586	1380	727	398	220
Morrison (Beatton River)	29.313	26.141	3.172	937	848	757	433	257	153
Morrison (Boundary Lake)	36.840	29.549	7.291	1438	1366	1297	916	640	448
Pouce Coupe Pipe Line Ltd.	2.132	0.915	1.217	697	555	442	141	45	0
Truck and Tank Car	4.500	2.094	2.406	646	640	599	341	211	138
British Columbia Total	96.022	76.750	19.272	5544	4995	4475	2558	1551	959
Alberta									
Bow River Pipe Lines Ltd.	40.382	20.174	20.208	9677	8786	7184	2497	876	214
Cremona Pipeline System	34.302	30.166	4.136	1541	1412	1246	579	246	109
Federated Pipe Lines Ltd.	352.597	298.780	53.817	14455	12642	11157	6593	4244	2890
Gibson Petroleum Company Ltd.	21.448	15.345	6.103	3217	2730	2256	776	276	0
Koch Alberta Pipeline Company	142.692	127.569	15.123	6591	6054	5291	1998	548	211
Imperial Pipe Line Company, Limited-Ellerslie	65.758	59.814	5.944	1116	1184	1321	1176	412	134
Imperial Pipe Line Company, Limited-Excelsior	7.664	7.222	0.442	219	193	158	61	15	9
Imperial Pipe Line Company, Limited-Leduc	60.900	60.431	0.469	226	179	145	48	35	27
Imperial Pipe Line Company, Limited-Redwater	131.192	128.101	3.091	1608	1361	1143	477	0	0
Murphy Milk River Pipeline	9.222	5.726	3.496	1420	1244	1062	508	262	66
Norcen Energy Resources Ltd.	19.387	17.628	1.759	778	667	572	265	123	0
Peace Pipe Line Ltd.	174.167	130.786	43.381	18690	17009	14451	5499	2207	785
Pembina Pipeline Company Ltd.	362.308	277.105	85.203	18972	15944	13384	7139	4619	3394
Rainbow Pipe Line Company Ltd.	314.923	255.549	59.374	23504	21697	18849	7776	3604	1374
Rangeland Pipe Line Company Ltd.	97.073	77.238	19.835	7161	6453	5717	2740	1416	520
Bonnie Glen Pipe Line	168.625	162.477	6.148	2598	2091	1676	608	316	126
Morrison (Boundary Lake)	6.169	4.279	1.890	543	533	489	270	154	60
Twining Pipeline Division	8.036	5.723	2.313	428	399	372	274	213	152
Valley Pipeline	25.618	22.848	2.770	395	395	395	359	266	197
Undefined and Confidential	4.800	0.211	4.589	1380	1576	1432	676	319	150
Alberta Total	2047.263	1707.172	340.091	114519	102549	88300	40319	20151	10418
Saskatchewan									
Mid-Sask Pipe Line - Area 2 Light	19.174	15.378	3.796	1597	1451	1322	808	0	0
Producers Pipelines - Area 4 Light	156.277	128.810	27.467	11119	9871	8341	3815	1561	560
Saskatchewan Total	175.451	144.188	31.263	12716	11322	9663	4623	1561	560
Manitoba									
Manitoba All	36.385	29.230	7.155	1716	1632	1522	1055	727	491
Ontario									
Ontario All	12.300	10.649	1.651	675	725	702	218	57	0
Nova Scotia									
Cohasset-Panuke	5.400	0.575	4.825	3120	5120	2550	0	0	0
Newfoundland									
Hibernia [a]	98.000	0.000	98.000	0	0	0	19840	19840	10500
Canada Total	2509.321	1985.989	522.757	143523	131776	112645	71809	45415	23649

Note: [a] Hibernia is projected to begin producing in 1997 and reach its' peak rate of 19, 840 cubic metres per day in 1999.

Current Tech Case

Exploration				Development				Productive Capacity											
Reserves		Additions		Additions		Reserves per Well		No. of Wells		Expl.		Horizontal		Vertical		Subtotal		Total	
E6m3	per Well E3m3/w	No. of Wells		Infill E6m3	Waterfld E6m3	Miscible E6m3	Total E6m3	Horizontal E3m3/w	Vertical E3m3/w	No.	No.	Wells E3m3/d	wells E3m3/d	wells E3m3/d	Additions E3m3/d	Estab. E3m3/d			
1993				4.5			4.5	20.0	10.0		450			2.5	2.5	139.6	142.1		
1994	8.3	1000		12.0	6.0	0.0	18.0	20.0	10.0	550	700	2.8	8.4	7.9	19.1	125.8	145.0		
1995	7.8	1000		12.0	6.0	0.0	18.0	20.0	10.0	605	590	7.6	21.9	12.0	41.6	109.3	150.9		
1996	7.4	1000		12.0	5.3	0.8	18.0	20.0	10.0	660	480	11.3	29.9	13.7	54.9	93.5	148.4		
1997	7.0	1000		12.0	5.3	1.5	18.8	20.0	10.0	715	445	14.3	35.0	13.9	63.3	80.2	143.5		
1998	6.6	1000		12.0	5.3	2.3	19.5	20.0	10.0	770	410	16.7	38.7	13.4	68.8	69.1	137.9		
1999	6.3	1000		12.0	5.3	3.0	20.3	20.0	10.0	825	375	18.3	41.7	12.2	72.3	59.6	131.9		
2000	6.0	1000		12.0	5.3	3.8	21.0	20.0	10.0	825	450	18.7	43.9	11.6	74.2	51.6	125.8		
2001	5.6	1000		12.0	5.3	3.5	20.8	20.0	10.0	825	425	17.9	44.8	11.6	74.3	44.6	118.9		
2002	5.3	1000		12.0	5.3	3.3	20.5	20.0	10.0	825	400	16.9	45.1	11.4	73.5	39.0	112.5		
2003	5.1	1000		12.0	5.3	3.0	20.3	20.0	10.0	825	375	16.0	45.2	11.1	72.3	33.2	105.6		
2004	4.8	1000		12.0	5.3	2.8	20.0	20.0	10.0	825	350	15.2	45.2	10.7	71.0	28.9	99.9		
2005	4.5	1000		12.0	4.5	2.5	19.0	20.0	10.0	825	250	14.4	45.2	9.6	69.2	25.4	94.7		
2006	4.3	1000		12.0	4.5	2.3	18.8	20.0	10.0	825	225	13.6	45.2	8.3	67.1	22.2	89.3		
2007	4.1	1000		12.0	3.8	2.0	17.8	20.0	10.0	825	125	12.9	45.2	6.8	64.8	19.1	83.9		
2008	3.8	1000		12.0	3.0	1.8	16.8	20.0	10.0	825	25	12.2	45.2	4.7	62.1	16.5	78.6		
2009	3.6	1000		12.0	2.3	1.5	15.8	20.0	10.0	780	15	11.5	44.5	2.8	58.9	14.6	73.5		
2010	3.4	1000		12.0	2.3	1.5	15.8	20.0	10.0	780	15	10.9	43.5	1.6	56.0	13.1	69.1		
Total	94.0	17000		208.5	79.5	35.3	323.3			13110	6105								

Table A7-7 (Continued)
Conventional Light Crude Oil Reserves Additions and Productive Capacity

Western Canada

High Tech Case

Exploration				Development				Productive Capacity							
Reserves		Additions		Reserves per Well		No. of Wells		Expl.		Horizontal		Vertical		Subtotal	
Additions	per Well	No. of		Infill	Waterf/d	Miscible	Total	Horizontal	Vertical	Wells	wells	wells	Additions	Estab.	Total
E6m3	E3m3/w	Wells		E6m3	E6m3	E6m3	E6m3	E3m3/w	E3m3/w	E3m3/d	E3m3/d	E3m3/d	E3m3/d	E3m3/d	E3m3/d
1993				4.5			4.5	20.0	10.0			2.5	2.5	139.6	142.1
1994	8.3	8.3	1000	12.0	8.0	0.0	20.0	20.0	10.0	2.8	8.4	9.0	20.3	125.8	146.1
1995	8.2	7.8	1050	12.0	8.0	0.0	20.0	20.0	10.0	7.8	22.8	14.3	44.8	109.3	154.1
1996	8.1	7.4	1100	12.0	7.0	1.0	20.0	20.0	10.0	11.8	32.9	15.5	60.1	93.5	153.6
1997	8.0	6.9	1150	12.0	7.0	2.0	21.0	20.0	10.0	15.3	39.8	15.1	70.2	80.2	150.4
1998	7.8	6.5	1200	12.0	7.0	3.0	22.0	20.0	10.0	18.2	44.4	14.3	76.8	69.1	145.9
1999	7.6	6.1	1250	12.0	7.0	4.0	23.0	20.0	10.0	20.4	47.7	13.1	81.2	59.6	140.8
2000	7.4	5.7	1300	12.0	7.0	5.0	24.0	20.0	10.0	21.3	50.8	12.2	84.2	51.6	135.9
2001	6.9	5.3	1300	12.0	7.0	5.0	24.0	20.0	10.0	20.9	53.0	11.8	85.6	44.6	130.3
2002	6.4	4.9	1300	12.0	7.0	5.0	24.0	20.0	10.0	20.1	53.9	11.6	85.6	39.0	124.6
2003	6.0	4.6	1300	12.0	7.0	5.0	24.0	20.0	10.0	19.2	54.2	11.5	84.9	33.2	118.2
2004	5.5	4.3	1300	12.0	7.0	5.0	24.0	20.0	10.0	18.2	54.2	11.5	83.9	28.9	112.8
2005	5.2	4.0	1300	12.0	6.0	5.0	23.0	20.0	10.0	17.1	54.2	10.9	82.3	25.4	107.7
2006	4.8	3.7	1300	12.0	6.0	5.0	23.0	20.0	10.0	16.0	54.2	10.1	80.3	22.2	102.5
2007	4.5	3.4	1300	12.0	5.0	5.0	22.0	20.0	10.0	14.9	54.2	8.9	78.0	19.1	97.1
2008	4.2	3.2	1300	12.0	4.0	5.0	21.0	20.0	10.0	13.8	54.2	7.1	75.2	16.5	91.7
2009	3.9	3.0	1300	12.0	3.0	5.0	20.0	20.0	10.0	12.9	54.2	4.8	72.0	14.6	86.6
2010	3.6	2.8	1300	12.0	2.0	6.0	20.0	20.0	10.0	12.0	54.2	2.9	69.2	13.1	82.3
Total	106.2		21050	208.5	105.0	66.0	379.5								

379.5

15510

6930

Table A7-8

Established Reserves of Conventional Crude Oil and Related Productive Capacity
by Pipeline and Region - Heavy Crude Oil

	Initial		Remaining	Productive Capacity					
	Established	Cumulative	Established	from Remaining Reserves at 92/12/31					
	Reserves	Production	Reserves						
	at 92/12/31	at 92/12/31	at 92/12/31	1993	1994	1995	2000	2005	2010
	(Millions of Cubic Metres)			(Cubic Metres per Day)					
Alberta									
Bow River Pipe Lines Ltd.	151.642	101.216	50.426	29086	26123	20530	5293	1019	132
Talisman-Chauvin	8.896	6.472	2.424	1114	1061	918	349	73	0
Husky Lloydminster, Murphy Manito	48.513	37.022	11.491	5735	5286	4493	1485	229	17
Truck and Tank Car	4.200	1.200	3.000	1000	998	912	431	203	96
Undefined and Confidential	1.500	0.000	1.500	460	535	461	218	102	48
Alberta Total	214.751	145.910	68.841	37395	34003	27314	7776	1626	293
Saskatchewan									
Area 1 - Husky SGS, Murphy Manito	83.245	57.077	26.168	10272	9754	8304	3551	1578	320
Area 2 - Mid-Sask System, Cactus Lake	30.783	17.427	13.356	4017	4003	3309	1600	979	514
Area 2 - Mid-Sask System, Light blended Heav	6.998	5.781	1.217	376	368	347	242	98	0
Area 3 - South Saskatchewan Pipe Line	109.782	91.720	18.062	5705	5331	4737	2556	1408	561
Area 4 - Producers' Pipelines	119.406	92.229	27.177	7655	7424	6754	3900	2263	1160
Saskatchewan Total	350.214	264.234	85.980	28025	26880	23451	11849	6326	2555
Canada Total	564.965	410.144	154.821	65420	60883	50765	19625	7952	2848

Table A7-9
Conventional Heavy Crude Oil Reserves Additions and Productive Capacity
Western Canada

Current Tech Case															
Exploration				Development				Productive Capacity							
	Reserves		No. of Wells	Additions		Reserves per Well		No. of Wells		Expl. Wells E3m3/d	Horizontal wells E3m3/d	Vertical wells E3m3/d	Subtotal Additions E3m3/d	Subtotal Estab. E3m3/d	Total E3m3/d
	Additions E6m3	per Well E3m3/w		Infill E6m3	Waterfild E6m3	Thermal E6m3	Total E6m3	Horizontal E3m3/w	Vertical E3m3/w						
1993						0.0	12.5	6.3					0.0	65.4	65.4
1994	6.6	6.6	1000	10	8.8	0.0	12.5	6.3	450	2100	2.3	4.3	14.0	60.9	74.8
1995	6.3	6.3	1000	10	7.8	0.0	12.5	6.3	495	1850	6.1	11.2	35.3	50.8	86.1
1996	6.0	6.0	1000	10	6.8	0.8	12.5	6.3	540	1720	9.1	15.3	48.1	41.5	89.6
1997	5.8	5.8	1000	9	6.0	1.5	12.5	6.3	585	1470	11.6	17.9	56.0	34.0	89.9
1998	5.5	5.5	1000	9	5.3	2.3	12.5	6.3	630	1380	13.6	19.8	60.1	28.1	88.2
1999	5.3	5.3	1000	8	5.3	3.0	12.5	6.3	675	1250	15.0	21.3	61.8	23.5	85.3
2000	5.0	5.0	1000	7	5.3	3.8	12.5	6.3	675	1210	15.3	22.5	61.1	19.6	80.8
2001	4.8	4.8	1000	6	5.3	4.5	12.5	6.3	675	1170	14.8	22.9	59.6	16.4	75.9
2002	4.6	4.6	1000	5	5.3	5.3	12.5	6.3	675	1130	14.2	23.1	58.0	13.8	71.8
2003	4.4	4.4	1000	4	5.3	6.0	12.5	6.3	675	1090	13.5	23.1	56.5	11.2	67.7
2004	4.2	4.2	1000	3	4.5	6.8	12.5	6.3	675	930	12.9	23.1	54.7	9.3	64.1
2005	4.0	4.0	1000	2	4.5	7.5	12.5	6.3	675	890	12.3	23.1	52.8	8.0	60.8
2006	3.8	3.8	1000	1	4.5	8.3	12.5	6.3	675	850	11.8	23.1	51.1	6.9	58.0
2007	3.6	3.6	1000	1	3.8	9.0	12.5	6.3	675	850	11.2	23.1	49.8	5.7	55.5
2008	3.5	3.5	1000	1	3.0	9.8	12.5	6.3	675	850	10.7	23.1	48.8	4.7	53.4
2009	3.3	3.3	1000	1	2.3	10.5	12.5	6.3	675	850	10.2	23.1	48.0	3.7	51.7
2010	3.2	3.2	1000	1	1.5	11.3	12.5	6.3	675	850	9.8	23.1	47.5	2.9	50.3
Total	79.7		17000	88	84.8	90.0	262.8		10800	20440					

Table A7-9 (Continued)
Conventional Heavy Crude Oil Reserves Additions and Productive Capacity
Western Canada

High Tech Case

	Exploration				Development				Productive Capacity					
	Reserves		No. of Wells	Additions	Additions		Total	Reserves per Well	No. of Wells		Expl. Wells	Horizontal		Subtotal
	E6m3	E3m3/w			Infill	Waterflood						Horizontal wells	Vertical wells	
					E6m3	E6m3	E6m3			No.	E3m3/d	E3m3/d	E3m3/d	E3m3/d
1993							0.0							0.0
1994	6.6	6.6	1000		10.0	9.0	19.0	12.5	450	2140	2.3	4.3	7.5	65.4
1995	6.6	6.3	1050		10.0	9.0	19.0	12.5	540	1960	6.2	11.7	18.6	60.9
1996	6.6	6.0	1100		10.0	8.0	19.0	12.5	630	1780	9.5	16.8	24.7	50.8
1997	6.6	5.7	1150		9.0	8.0	19.0	12.5	675	1690	12.4	20.4	28.0	41.5
1998	6.5	5.4	1200		9.0	7.0	19.0	12.5	720	1600	14.8	22.7	29.3	34.0
1999	6.4	5.1	1250		8.0	7.0	19.0	12.5	765	1510	16.7	24.4	28.7	28.1
2000	6.3	4.8	1300		7.0	7.0	19.0	12.5	810	1420	17.6	26.0	27.0	23.5
2001	5.9	4.5	1300		6.0	7.0	19.0	12.5	810	1420	17.5	27.1	25.7	19.6
2002	5.5	4.3	1300		5.0	7.0	19.0	12.5	810	1420	17.0	27.5	25.0	16.4
2003	5.2	4.0	1300		4.0	7.0	19.0	12.5	810	1420	16.3	27.7	24.6	13.8
2004	4.9	3.8	1300		3.0	6.0	18.0	12.5	810	1260	15.6	27.7	23.8	11.2
2005	4.6	3.6	1300		2.0	6.0	18.0	12.5	810	1260	14.8	27.7	22.9	9.3
2006	4.4	3.4	1300		1.0	6.0	18.0	12.5	810	1260	14.0	27.7	22.3	8.0
2007	4.1	3.2	1300		1.0	5.0	18.0	12.5	810	1260	13.2	27.7	21.9	6.9
2008	3.9	3.0	1300		1.0	4.0	18.0	12.5	810	1260	12.4	27.7	21.7	5.7
2009	3.6	2.8	1300		1.0	3.0	18.0	12.5	810	1260	11.7	27.7	21.6	4.7
2010	3.4	2.6	1300		1.0	2.0	18.0	12.5	810	1260	11.0	27.7	21.6	3.7
Total	91.1		21050	88.0	88.0	108.0	316.0		12690	25180				60.4
														2.9

Table A7-10

(Thousands of Cubic Metres per Day)

Current Tech Case

[illegible]

Table A7-10 (Continued)
Productive Capacity of Crude Oil and Equivalent - Canada

(Thousands of Cubic Metres per Day)

High Tech Case

Production										Crude Oil Upgrading										Net Available Crude Oil Supply																						
Western Canada																																										
					Total					Eastern Canada					Total					Crude & Equiv-					Total																	
Conv.		Mined		Pentanes		Total		Conv.		Heavy		Bitumen		Total		Equiv-		Conv.		Crude & Equiv-		Gross		Upgrader		Upgrader		Recycled		Conv.		Synthetic		Pentanes		Equiv-		Total				
Light		Synthetic		Plus		Light		Heavy		Total		Total		Total		Light		Light		Diluent		Diluent		Blend		Synthetic		Diluent		Light		Synthetic		plus		alent		Heavy				
1993	142.1	38.9	23.8	204.8	65.4	21.4	86.8	291.6	3.8	295.4	14.5	15.7	13.9	2.5	145.9	52.8	11.8	210.6	85.6	296.1	15.9	15.3	13.6	2.4	152.1	55.3	10.8	218.1	98.4	316.5	157.5	57.6	8.8	224.0	115.3	339.3	157.0	58.1	6.7	221.8	127.1	348.9
1994	146.1	41.7	24.3	212.0	75.0	22.8	97.8	309.8	6.0	315.8	18.2	15.6	13.8	2.5	155.6	59.0	3.7	218.3	140.6	358.8	20.3	15.6	13.8	2.5	161.3	59.0	0.9	221.3	150.1	371.4	161.4	59.0	-1.1	219.3	155.5	374.8	160.4	62.0	-2.4	219.9	158.1	378.0
1995	154.1	43.8	24.5	222.4	87.3	25.5	112.8	335.2	3.4	338.6	23.5	15.6	13.8	2.5	162.6	68.8	-2.7	228.7	156.5	385.2	26.1	15.6	13.8	2.5	161.4	59.0	-1.1	219.3	155.5	374.8	160.4	62.0	-2.4	219.9	158.1	378.0	160.4	62.0	-2.4	219.9	158.1	378.0
1996	153.6	44.3	24.5	222.4	92.4	29.9	122.3	344.8	3.4	348.2	27.8	16.6	14.6	2.7	160.8	70.9	-2.7	229.1	155.4	384.4	29.1	16.6	14.6	2.7	158.8	73.6	-2.5	229.9	153.6	383.5	156.7	75.6	-2.1	230.3	152.4	382.6	153.5	77.6	-1.3	229.8	149.0	378.8
1997	150.4	45.2	24.7	220.3	94.8	37.9	132.7	352.9	5.2	358.1	31.6	16.6	14.6	2.7	153.5	77.6	-1.3	229.8	149.0	378.8	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	152.0	78.3	-1.9	228.4	150.6	379.0	152.0	78.3	-1.9	228.4	150.6	379.0
1998	145.9	45.2	24.5	215.6	94.9	44.8	139.7	355.3	15.4	370.7	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
1999	140.8	45.2	24.2	210.2	93.3	50.0	143.3	353.5	20.6	374.1	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2000	135.9	48.2	24.2	208.3	90.2	54.4	144.6	352.8	24.5	377.3	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2001	130.3	54.2	24.3	208.8	86.6	56.8	143.4	352.2	32.3	384.5	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2002	124.6	54.7	24.6	203.9	83.3	60.1	143.4	347.3	36.2	383.5	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2003	118.2	55.2	24.8	198.2	79.8	63.8	143.6	341.8	40.6	382.4	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2004	112.8	56.5	25.5	194.8	76.5	66.3	142.8	337.6	43.9	381.5	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2005	107.7	58.5	26.0	192.2	73.4	66.3	139.7	331.9	45.8	377.7	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2006	102.5	58.5	26.3	187.3	71.0	70.2	141.2	328.4	49.5	377.9	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2007	97.1	60.0	27.2	184.3	68.6	71.3	139.9	324.2	50.2	374.4	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2008	91.7	60.5	28.0	180.2	66.5	73.5	140.0	320.2	47.7	367.9	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2009	86.6	62.5	28.7	177.8	64.7	74.7	139.4	317.2	44.8	362.0	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8
2010	82.3	62.5	29.4	174.2	63.2	76.4	139.6	313.8	42.8	356.6	32.2	16.6	14.6	2.7	147.3	81.9	0.1	229.3	146.5	375.8	29.1	16.6	14.6	2.7	139.4	84.1	1.2	224.6	144.8	369.4	147.3	81.9	0.1	229.3	146.5	375.8	147.3	81.9	0.1	229.3	146.5	375.8

Table A7-11

Productive Capacity of Crude Oil and Equivalent
Western Canada - Provincial Detail

(Thousands of Cubic Metres per Day)

Current Tech Case

Alberta		Saskatchewan								British Columbia				Man.	NWT	Total		
		Total Crude & Equiv-				Total Crude & Equiv-				Total Crude & Equiv-		Total Crude & Equiv-						
	Conv. Light	Mined Synthetic	Pentananes Plus	Total Light	Conv. Heavy	Bitumen	Total Heavy	Total Crude & Equiv-	Conv. Light	Pentananes Plus	Total Light	Conv. Heavy	Total Crude & Equiv-	Conv. Light	Pentananes Plus	Total Light	Conv. Light	Heavy
1991	114.1	35.9	18.4	168.4	27.9	19.4	47.2	215.6	11.1	0.1	11.2	22.3	33.5	5.4	0.8	6.2	192.9	69.5
1992	114.5	37.2	20.4	172.1	30.3	19.9	50.2	222.3	11.6	0.1	11.7	24.6	36.4	5.5	0.9	6.4	197.1	74.8
1993	116.7	38.9	22.7	178.3	37.4	21.4	58.8	237.1	12.9	0.1	13.0	28.0	41.1	5.6	1.0	6.7	204.8	86.8
1994	119.2	41.7	23.5	184.4	42.4	22.8	65.2	249.6	13.0	0.1	13.1	32.5	45.6	5.6	1.1	6.7	211.3	97.6
1995	124.5	43.8	24.3	192.6	48.5	24.7	73.2	265.8	13.4	0.1	13.5	37.6	51.1	5.7	1.1	6.8	220.2	110.8
1996	122.3	44.3	24.9	191.5	50.1	28.1	78.2	269.8	13.2	0.1	13.3	39.5	52.8	5.6	1.2	6.8	218.9	117.7
1997	118.5	45.2	25.8	189.5	50.0	33.4	83.4	272.9	12.8	0.1	12.9	39.9	52.8	5.4	1.2	6.6	215.8	123.3
1998	114.3	45.2	26.3	185.8	48.9	37.0	85.9	271.6	12.3	0.1	12.4	39.4	51.8	5.2	1.2	6.5	210.7	125.2
1999	109.6	45.2	26.6	181.4	47.1	41.3	88.4	269.8	11.8	0.1	11.9	38.2	50.1	5.0	1.2	6.3	205.0	126.6
2000	104.9	48.2	27.0	180.1	44.5	44.5	89.0	269.1	11.3	0.1	11.4	36.3	47.7	4.8	1.3	6.0	202.4	125.3
2001	99.5	54.2	27.3	181.0	41.7	44.2	85.9	266.9	10.5	0.1	10.6	34.2	44.9	4.5	1.3	5.8	201.8	120.1
2002	94.5	54.7	27.5	176.7	39.5	44.1	83.6	260.3	9.8	0.1	9.9	32.3	42.2	4.3	1.3	5.6	196.1	115.9
2003	89.1	55.2	27.7	172.0	37.0	43.8	80.8	252.8	8.9	0.1	9.0	30.7	39.7	4.1	1.3	5.4	189.9	111.5
2004	84.6	56.5	27.8	168.9	35.0	42.8	77.8	246.7	8.3	0.1	8.4	29.0	37.4	3.8	1.3	5.1	185.6	106.9
2005	80.4	57.0	27.9	165.3	33.3	42.2	75.5	240.8	7.8	0.1	7.9	27.5	35.3	3.6	1.3	4.9	181.0	103.0
2006	76.0	57.0	28.2	161.2	31.9	41.2	73.1	234.3	7.3	0.1	7.4	26.1	33.5	3.4	1.3	4.7	175.9	99.2
2007	71.5	57.0	27.9	156.3	30.8	40.9	71.7	228.0	6.9	0.1	7.0	24.7	31.7	3.2	1.3	4.5	170.2	96.4
2008	67.1	57.5	26.9	151.5	29.9	40.9	70.8	222.3	6.3	0.1	6.4	23.5	30.0	3.0	1.3	4.3	164.4	94.3
2009	62.8	58.0	25.9	146.7	29.3	40.8	70.1	216.8	5.9	0.1	6.0	22.5	28.5	2.8	1.2	4.0	158.7	92.5
2010	59.2	58.0	24.7	141.8	28.8	40.8	69.6	211.4	5.6	0.1	5.7	21.5	27.3	2.6	1.1	3.8	153.0	91.1

Table A7-11 (Continued)
 Productive Capacity of Crude Oil and Equivalent
 Western Canada - Provincial Detail
 (Thousands of Cubic Metres per Day)

High Tech Case

Alberta		Saskatchewan								British Columbia				Man.	NWT	Total				
		Conv. Light	Mined Synthetic	Pentanes Plus	Total Light	Conv. Heavy	Bitumen	Total Heavy	Total Crude & Equiv- alent	Conv. Light	Pentanes Plus	Total Light	Conv. Light							
1991	114.1	35.9	18.4	168.4	27.9	19.4	47.2	215.6	11.1	0.1	11.2	22.3	33.5	5.4	0.8	6.2	1.9	5.2	192.9	69.5
1992	114.5	37.2	20.4	172.1	30.3	19.9	50.2	222.3	11.6	0.1	11.7	24.6	36.4	5.5	0.9	6.4	1.8	5.1	197.1	74.8
1993	116.7	38.9	22.7	178.3	37.4	21.4	58.8	237.1	12.9	0.1	13.0	28.0	41.1	5.6	1.0	6.7	1.7	5.1	204.8	86.8
1994	120.2	41.7	23.1	185.0	42.5	22.8	65.3	250.3	13.1	0.1	13.2	32.5	45.8	5.6	1.1	6.7	1.8	5.3	212.0	97.8
1995	127.3	43.8	23.3	194.5	49.2	25.5	74.7	269.2	13.7	0.1	13.8	38.0	51.8	5.8	1.1	6.9	2.0	5.3	222.4	112.8
1996	126.8	44.3	23.3	194.5	51.8	29.9	81.7	276.2	13.7	0.1	13.8	40.6	54.4	5.8	1.1	6.9	2.0	5.3	222.4	122.3
1997	124.5	45.2	23.5	193.2	52.9	37.9	90.8	284.0	13.4	0.1	13.5	41.8	55.4	5.7	1.1	6.7	2.0	4.8	220.3	132.7
1998	121.3	45.2	23.3	189.8	52.9	44.8	97.7	287.4	13.1	0.1	13.2	42.0	55.2	5.5	1.1	6.6	2.0	4.1	215.6	139.7
1999	117.4	45.2	23.0	185.6	51.9	50.0	101.9	287.6	12.6	0.1	12.7	41.4	54.1	5.3	1.1	6.3	1.9	3.6	210.2	143.3
2000	113.6	48.2	23.0	184.9	50.1	54.4	104.5	289.4	12.2	0.1	12.3	40.1	52.4	5.1	1.1	6.1	1.9	3.1	208.3	144.6
2001	109.4	54.2	23.1	186.7	48.1	56.8	104.9	291.6	11.5	0.1	11.6	38.5	50.1	4.9	1.1	5.9	1.8	2.6	208.8	143.4
2002	105.0	54.7	23.4	183.1	46.4	60.1	106.5	289.6	10.9	0.1	11.0	36.9	47.9	4.7	1.1	5.7	1.8	2.3	203.9	143.4
2003	100.0	55.2	23.6	178.8	44.3	63.8	108.1	286.9	10.1	0.1	10.2	35.5	45.7	4.4	1.1	5.5	1.7	2.0	198.2	143.6
2004	95.8	56.5	24.3	176.6	42.5	66.3	108.8	285.4	9.5	0.1	9.6	34.0	43.6	4.2	1.1	5.4	1.6	1.7	194.8	142.8
2005	91.7	58.5	24.8	175.0	40.9	66.3	107.2	282.2	9.0	0.1	9.1	32.5	41.6	4.0	1.1	5.2	1.5	1.4	192.2	139.7
2006	87.5	58.5	25.0	171.0	39.7	70.2	109.9	280.9	8.5	0.1	8.6	31.3	39.9	3.8	1.2	5.0	1.4	1.2	187.3	141.2
2007	82.9	60.0	25.9	168.8	38.6	71.3	109.9	278.8	8.1	0.1	8.2	29.9	38.1	3.6	1.2	4.8	1.4	1.1	184.3	139.9
2008	78.5	60.5	26.7	165.6	37.8	73.5	111.3	276.9	7.5	0.1	7.6	28.8	36.4	3.4	1.2	4.7	1.3	0.9	180.2	140.0
2009	74.2	62.5	27.3	164.0	37.1	74.7	111.8	275.8	7.1	0.1	7.2	27.7	34.9	3.2	1.3	4.5	1.2	0.8	177.8	139.4
2010	70.6	62.5	28.0	161.1	36.5	76.4	112.9	274.0	6.8	0.1	6.9	26.7	33.6	3.0	1.3	4.3	1.2	0.7	174.2	139.6

Table A7-12
Conventional Light Crude Oil Reserves Additions and Productive Capacity
Western Canada

Low Price Case

Exploration				Development				Productive Capacity						
Reserves		No. of Wells	Additions		Reserves per Well		No. of Wells		Expl. Wells E3m3/d	Horizontal wells E3m3/d	Vertical wells E3m3/d	Subtotal Additions E3m3/d	Subtotal Estab. E3m3/d	Total E3m3/d
Additions E6m3	per Well E3m3/w		Infill E6m3	Waterfild E6m3	Miscible E6m3	Total E6m3	Horizontal E3m3/w	Vertical E3m3/w						
1993			4.5			4.5	20.0	10.0			2.5	2.5	139.6	142.1
1994	6.7	8.3	12.0	4.0	0.0	16.0	20.0	10.0		6.8	8.0	17.0	125.8	142.8
1995	6.4	8.0	12.0	4.0	0.0	16.0	20.0	10.0	495	17.7	12.3	36.2	109.3	145.5
1996	6.1	7.6	12.0	4.0	0.0	16.0	20.0	10.0	550	24.5	14.1	47.8	93.5	141.3
1997	5.8	7.3	12.0	4.0	0.0	16.0	20.0	10.0	605	29.2	14.0	54.8	80.2	135.0
1998	5.6	7.0	12.0	4.0	0.0	16.0	20.0	10.0	660	32.7	12.4	58.8	69.1	127.9
1999	5.3	6.7	12.0	4.0	0.0	16.0	20.0	10.0	660	34.9	10.4	60.4	59.6	120.0
2000	5.1	6.4	12.0	4.0	0.0	16.0	20.0	10.0	660	35.8	8.9	60.3	51.6	111.9
2001	4.9	6.1	11.0	3.0	0.0	14.0	20.0	10.0	605	35.2	7.6	57.9	44.6	102.6
2002	4.7	5.9	10.0	2.0	0.0	12.0	20.0	10.0	550	33.2	6.0	53.6	39.0	92.6
2003	4.5	5.6	9.0	2.0	0.0	11.0	20.0	10.0	523	30.9	4.3	49.0	33.2	82.3
2004	4.3	5.4	8.0	2.0	0.0	10.0	20.0	10.0	495	29.1	2.8	45.1	28.9	74.0
2005	4.1	5.1	7.0	2.0	0.0	9.0	20.0	10.0	440	27.0	1.6	41.2	25.4	66.7
2006	3.9	4.9	6.0	2.0	0.0	8.0	20.0	10.0	385	24.4	1.0	37.5	22.2	59.7
2007	3.8	4.7	5.0	2.0	0.0	7.0	20.0	10.0	330	21.5	0.9	34.0	19.1	53.0
2008	3.6	4.5	4.0	2.0	0.0	6.0	20.0	10.0	275	18.5	1.0	30.6	16.5	47.1
2009	3.4	4.3	3.0	2.0	0.0	5.0	20.0	10.0	248	15.9	0.9	27.4	14.6	42.0
2010	3.3	4.1	3.0	1.0	0.0	4.0	20.0	10.0	193	13.6	0.7	24.4	13.1	37.5
Total	81.5		154.5	48.0	0.0	202.5			8113					

Western Canada

High Price Case

	Exploration				Development				Productive Capacity					Total
	Additions E6m3	Reserves per Well E3m3/w	No. of Wells	Total E6m3	Reserves per Well		No. of Wells		Expl. Wells E3m3/d	Horizontal wells E3m3/d	Vertical wells E3m3/d	Subtotal Additions E3m3/d	Subtotal Estab. E3m3/d	
					Horizontal E3m3/w	Vertical E3m3/w	Horizontal No.	Vertical No.						
1993				4.5	20.0	10.0		450			2.5	2.5	139.6	E3m3/d
1994	8.3	8.3	1000	20.0	20.0	10.0	550	900	2.8	8.4	9.0	20.3	125.8	
1995	8.2	7.8	1050	24.0	20.0	10.0	660	1080	7.8	22.8	16.5	47.1	109.3	
1996	8.1	7.4	1100	24.0	20.0	10.0	770	860	11.8	32.9	21.3	65.9	93.5	
1997	8.0	6.9	1150	24.0	20.0	10.0	825	750	15.3	39.8	22.6	77.7	80.2	
1998	7.8	6.5	1200	24.0	20.0	10.0	880	640	18.2	44.4	21.9	84.5	69.1	
1999	7.6	6.1	1250	24.0	20.0	10.0	935	530	20.4	47.7	19.7	87.8	59.6	
2000	7.4	5.7	1300	24.0	20.0	10.0	990	420	21.3	50.8	16.7	88.8	51.6	
2001	6.9	5.3	1300	24.0	20.0	10.0	990	420	20.9	53.0	14.2	88.1	44.6	
2002	6.4	4.9	1300	24.0	20.0	10.0	990	420	20.1	53.9	12.8	86.8	39.0	
2003	6.0	4.6	1300	24.0	20.0	10.0	990	420	19.2	54.2	12.0	85.4	33.2	
2004	5.5	4.3	1300	24.0	20.0	10.0	990	420	18.2	54.2	11.6	84.0	28.9	
2005	5.2	4.0	1300	23.0	20.0	10.0	990	320	17.1	54.2	10.9	82.3	25.4	
2006	4.8	3.7	1300	23.0	20.0	10.0	990	320	16.0	54.2	10.1	80.3	22.2	
2007	4.5	3.4	1300	22.0	20.0	10.0	990	220	14.9	54.2	8.9	78.0	19.1	
2008	4.2	3.2	1300	21.0	20.0	10.0	990	120	13.8	54.2	7.1	75.2	16.5	
2009	3.9	3.0	1300	20.0	20.0	10.0	990	20	12.9	54.2	4.8	72.0	14.6	
2010	3.6	2.8	1300	20.0	20.0	10.0	990	20	12.0	54.2	2.9	69.2	13.1	
total	106.2		21050	393.5			15510	8330						

Table A7-13
Conventional Heavy Crude Oil Reserves Additions and Productive Capacity
Western Canada

Low Price Case

Exploration				Development				Productive Capacity									
Reserves		Additions		Reserves per Well		No. of Wells		Expl.		Horizontal wells		Vertical wells		Subtotal		Subtotal	
E6m3	E3m3/w	No. of Wells	Infill	Waterfld	Thermal	Total	Horizontal	Vertical	E3m3/d	E3m3/w	E3m3/d	E3m3/d	E3m3/d	Additions	E3m3/d	Estab.	E3m3/d
1993						0.0	12.5	6.3						0.0		65.4	65.4
1994	5.3	800	10.0	3.0	0.0	13.0	12.5	6.3	1.8		3.5	4.8		10.0		60.9	70.9
1995	5.1	800	10.0	3.0	0.0	13.0	12.5	6.3	4.9		9.1	11.9		25.9		50.8	76.7
1996	4.9	800	10.0	3.0	0.0	13.0	12.5	6.3	7.4		12.5	16.0		35.9		41.5	77.4
1997	4.8	800	9.0	3.0	0.0	12.0	12.5	6.3	9.4		14.9	17.7		42.0		34.0	76.0
1998	4.6	800	9.0	3.0	0.0	12.0	12.5	6.3	11.1		16.7	17.4		45.3		28.1	73.4
1999	4.4	800	8.0	3.0	0.0	11.0	12.5	6.3	12.3		17.8	15.9		46.1		23.5	69.6
2000	4.3	800	7.0	3.0	0.0	10.0	12.5	6.3	12.7		18.3	13.4		44.4		19.6	64.0
2001	4.1	800	6.0	3.0	0.0	9.0	12.5	6.3	12.4		18.0	11.0		41.4		16.4	57.8
2002	4.0	800	5.0	3.0	0.0	8.0	12.5	6.3	11.9		17.0	9.1		38.1		13.8	51.9
2003	3.8	800	4.0	3.0	0.0	7.0	12.5	6.3	11.5		15.8	7.4		34.7		11.2	46.0
2004	3.7	800	3.0	2.0	0.0	5.0	12.5	6.3	11.1		14.6	5.2		31.0		9.3	40.3
2005	3.5	800	2.0	1.0	0.0	3.0	12.5	6.3	10.7		12.2	3.2		26.0		8.0	34.0
2006	3.4	800	1.0	1.0	0.0	2.0	12.5	6.3	10.3		8.6	1.9		20.9		6.9	27.8
2007	3.3	800	1.0	1.0	0.0	2.0	12.5	6.3	9.9		6.2	1.3		17.3		5.7	23.0
2008	3.2	800	1.0	1.0	0.0	2.0	12.5	6.3	9.6		5.1	0.9		15.6		4.7	20.2
2009	3.1	800	1.0	1.0	0.0	2.0	12.5	6.3	9.2		4.7	0.8		14.7		3.7	18.5
2010	2.9	800	1.0	1.0	0.0	2.0	12.5	6.3	8.9		4.6	0.8		14.4		2.9	17.2
Total	68.4	13600	88.0	38.0	0.0	126.0			5985								8190

Table A7-13 (Continued)
Conventional Heavy Crude Oil Reserves Additions and Productive Capacity
Western Canada

High Price Case

Exploration				Development				Productive Capacity									
Reserves		Additions		Reserves per Well		No. of Wells		Expl.		Horizontal		Vertical		Subtotal		Total	
E6m3	No. of Wells	Infill	Waterfld	Thermal	Total	Horizontal	Vertical	Wells	E3m3/d	wells	E3m3/d	wells	E3m3/d	Additions	Estab.	E3m3/d	E3m3/d
		E6m3	E6m3	E6m3	E6m3	E3m3/w	E3m3/w	No.		E3m3/d		E3m3/d		E3m3/d			
1993					0.0	12.5	6.3							0.0	65.4	65.4	
1994	6.6	10.0	9.0	0.0	19.0	12.5	6.3	450	2.3	4.3	7.5			14.1	60.9	75.0	
1995	6.6	10.0	9.0	3.0	22.0	12.5	6.3	540	6.2	11.7	20.3			38.2	50.8	88.9	
1996	6.6	10.0	8.0	4.0	22.0	12.5	6.3	630	9.5	16.8	29.0			55.3	41.5	96.8	
1997	6.6	9.0	8.0	5.0	22.0	12.5	6.3	675	12.4	20.4	34.1			66.8	34.0	100.8	
1998	6.5	9.0	7.0	6.0	22.0	12.5	6.3	720	14.8	22.7	36.5			74.0	28.1	102.1	
1999	6.4	8.0	7.0	7.0	22.0	12.5	6.3	765	16.7	24.4	36.6			77.7	23.5	101.2	
2000	6.3	7.0	7.0	7.0	21.0	12.5	6.3	810	17.6	26.0	34.6			78.2	19.6	97.8	
2001	5.9	6.0	7.0	7.0	20.0	12.5	6.3	810	17.5	27.1	31.9			76.4	16.4	92.8	
2002	5.5	5.0	7.0	7.0	19.0	12.5	6.3	810	17.0	27.5	29.2			73.7	13.8	87.5	
2003	5.2	4.0	7.0	8.0	19.0	12.5	6.3	810	16.3	27.7	26.9			71.0	11.2	82.2	
2004	4.9	3.0	6.0	9.0	18.0	12.5	6.3	810	15.6	27.7	25.0			68.3	9.3	77.6	
2005	4.6	2.0	6.0	10.0	18.0	12.5	6.3	810	14.8	27.7	23.3			65.9	8.0	73.8	
2006	4.4	1.0	6.0	11.0	18.0	12.5	6.3	810	14.0	27.7	22.4			64.2	6.9	71.0	
2007	4.1	1.0	5.0	12.0	18.0	12.5	6.3	810	13.2	27.7	21.9			62.9	5.7	68.6	
2008	3.9	1.0	4.0	13.0	18.0	12.5	6.3	810	12.4	27.7	21.7			61.9	4.7	66.5	
2009	3.6	1.0	3.0	14.0	18.0	12.5	6.3	810	11.7	27.7	21.6			61.0	3.7	64.7	
2010	3.4	1.0	2.0	15.0	18.0	12.5	6.3	810	11.0	27.7	21.6			60.4	2.9	63.2	
Total	91.1	88.0	108.0	138.0	334.0			12690									

Table A7-14

Productive Capacity of Crude Oil and Equivalent - Canada

(Thousands of Cubic Metres per Day)

Low Price Case

Production										Crude Oil Upgrading										Net Available Crude Oil Supply									
Western Canada					Eastern Canada					Total Canada					Gross					Upgrader					Total				
Conv.	Light	Mined Synthetic	Pentanes Plus	Total	Conv.	Heavy	Bitumen	Total Heavy	Total Crude & Equiv.	Conv.	Light	Total Crude & Equiv.	Diluent	Blend	Synthetic Prod	Recycled Diluent	Conv.	Light	Synthetic	Pentanes plus	Total Crude & Equiv.	Heavy Blend	Total						
1991	137.7	35.9	19.3	192.9	50.5	19.4	69.9	262.8	0.7	262.8	13.1	7.4	6.9	0.8	138.4	42.8	7.0	188.2	75.6	263.9									
1992	139.2	37.2	21.4	197.8	55.4	19.9	75.3	273.1	2.3	275.4	13.5	10.2	9.4	1.3	141.5	46.6	9.2	197.3	78.5	275.8									
1993	142.1	38.9	23.8	204.8	65.4	21.4	86.8	291.6	3.8	295.4	14.5	15.7	13.9	2.5	145.9	52.8	11.8	210.6	85.6	296.1									
1994	142.8	41.7	24.7	209.2	70.9	22.8	93.7	302.9	6.0	308.9	15.5	15.3	13.6	2.4	148.8	55.3	11.6	215.7	94.0	309.6									
1995	145.5	43.8	25.5	214.8	76.7	22.2	98.9	313.7	3.4	317.1	15.9	15.6	13.8	2.5	148.9	57.6	12.1	218.6	99.2	317.8									
1996	141.3	44.3	26.2	211.8	77.4	21.6	99.0	310.8	3.3	314.1	15.7	15.6	13.8	2.5	144.6	58.1	13.0	215.6	99.1	314.8									
1997	135.0	45.2	27.1	207.3	76.0	21.0	97.0	304.3	4.9	309.2	15.4	15.6	13.8	2.5	139.9	59.0	14.2	213.2	96.8	309.9									
1998	127.9	45.2	27.6	200.7	73.4	20.5	93.9	294.6	15.1	309.7	14.9	15.6	13.8	2.5	143.0	59.0	15.2	217.2	93.2	310.4									
1999	120.0	45.2	27.9	193.1	69.6	18.5	88.1	281.2	20.3	301.5	13.8	15.6	13.8	2.5	140.3	59.0	16.6	215.9	86.3	302.2									
2000	111.9	45.2	28.4	185.5	64.0	16.6	80.6	266.1	20.2	286.3	12.5	15.6	13.8	2.5	132.1	59.0	18.4	209.5	77.5	287.0									
2001	102.6	45.7	28.7	177.0	57.8	15.0	72.8	249.8	20.1	269.9	11.3	14.6	12.8	2.5	122.7	58.5	19.9	201.0	69.5	270.6									
2002	92.6	45.7	28.9	167.2	51.9	13.5	65.4	232.6	20.1	252.7	10.2	13.6	11.7	2.5	112.7	57.4	21.2	191.3	62.0	253.3									
2003	82.3	45.7	29.1	157.1	46.0	12.1	58.1	215.1	20.1	235.2	9.1	12.6	10.7	2.5	102.4	56.4	22.5	181.3	54.5	235.8									
2004	74.0	46.5	29.2	149.7	40.3	10.9	51.2	200.8	20.0	220.8	8.1	8.3	6.2	2.5	94.0	52.7	23.6	170.3	50.9	221.2									
2005	66.7	46.5	29.3	142.5	34.0	9.8	43.8	186.3	20.0	206.3	7.0	8.3	6.2	2.5	86.7	52.7	24.8	164.2	42.5	206.7									
2006	59.7	46.5	29.6	135.8	27.8	8.8	36.6	172.4	19.1	191.5	6.0	8.3	6.2	2.5	78.8	52.7	26.1	157.6	34.3	191.9									
2007	53.0	47.0	29.3	129.3	23.0	7.9	30.9	160.3	16.5	176.8	5.2	8.3	6.2	2.5	69.5	53.2	26.6	149.3	27.9	177.2									
2008	47.1	47.0	28.3	122.4	20.2	7.2	27.4	149.8	14.2	164.0	4.7	8.3	6.2	2.5	61.3	53.2	26.1	140.6	23.8	164.4									
2009	42.0	47.0	27.2	116.2	18.5	6.4	24.9	141.1	12.2	153.3	4.2	8.3	6.2	2.5	54.2	53.2	25.5	132.9	20.8	153.7									
2010	37.5	47.5	25.9	110.9	17.2	5.8	23.0	133.9	10.5	144.4	3.9	8.3	6.2	2.5	48.0	53.7	24.5	126.2	18.6	144.8									

Table A7-14 (Continued)
Productive Capacity of Crude Oil and Equivalent - Canada

(Thousands of Cubic Metres per Day)

High Price Case

Production										Crude Oil Upgrading										Net Available Crude Oil Supply																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Conv.		Mined		Pentanes		Total		Conv.		Heavy		Bitumen		Total		Equivalent		Eastern		Total		Crude &		Total		Crude &		Gross		Upgrader		Upgrader		Recycled		Conv.		Synthetic		Pentanes		Total		Light &		Heavy		Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Light	Synthetic	Plus	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy

Note: * Includes Beaufort Sea production starting in 2006

Table A7-15

Refinery Feedstock Requirements and Sources - Canada and Regions

Canada								
Current Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	77316	77385	78910	80104	82673	89649	97207	103024
Deduct Product Imports	-8634	-8619	-8150	-7950	-9150	-9750	-14520	-20040
Add Product Exports	15768	13832	14200	13800	12800	12500	12100	12000
Net Regional Transfers - In/+Out	0	0	0	0	0	0	0	0
Product Inventory +Build/-Draw	-433	-1588	-84	0	0	0	0	0
Add Own Consumption	5502	5506	5635	5713	5929	6485	7060	7491
Total	89519	86516	90511	91667	92252	98884	101847	102475
Per Day	245.3	236.4	248.0	251.1	252.7	270.2	279.0	280.8
Feedstock Sources (Thousands of Cubic Metres Per Day)								
Domestic: Heavy	17.1	17.2	18.5	20.0	20.1	21.5	23.4	24.3
Light	127.6	124.8	134.1	132.5	131.7	142.7	142.1	119.2
Imports	86.4	80.9	92.4	89.1	91.4	96.3	103.9	127.7
Inventory Change	5.5	3.9	-6.6	0.0	0.0	0.0	0.0	0.0
Subtotal	236.7	226.8	238.4	241.5	243.1	260.6	269.4	271.2
Other Material	8.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
Total	245.3	236.4	248.0	251.1	252.7	270.2	279.0	280.8
High Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	77316	77385	78664	79530	81616	86935	92834	97746
Deduct Product Imports	-8634	-8619	-8150	-7950	-9125	-9625	-11415	-14885
Add Product Exports	15768	13832	14200	13800	12800	12500	12100	12000
Net Regional Transfers - In/+Out	0	0	0	0	0	0	0	0
Product Inventory +Build/-Draw	-433	-1588	-85	0	0	0	0	0
Add Own Consumption	5502	5506	5617	5670	5846	6266	6720	7076
Total	89519	86516	90246	91050	91137	96076	100238	101937
Per Day	245	236	247	249	250	263	275	279
Feedstock Sources (Thousands of Cubic Metres Per Day)								
Domestic: Heavy	17.1	17.2	18.5	20.0	20.1	21.5	23.4	24.3
Light	127.6	124.8	134.1	131.5	129.8	136.9	142.1	141.8
Imports	86.4	80.9	92.1	88.3	90.2	94.5	99.5	103.6
Inventory Change	5.5	3.9	-6.9	0.0	0.0	0.0	0.0	0.0
Subtotal	236.7	226.8	237.7	239.9	240.1	252.9	265.0	269.7
Other Material	8.6	9.6	9.5	9.6	9.6	9.6	9.6	9.6
Total	245.3	236.4	247.2	249.5	249.7	262.5	274.6	279.3

Note: [a] 1991 and 1992 based on actual data from Statistics Canada Catalogue 45-004 and NEB.

Table A7-15 (Continued)

Refinery Feedstock Requirements and Sources - Canada and Regions

Atlantic Current Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	11110	11132	11123	10558	11139	11677	12594	12576
Deduct Product Imports	-4492	-3844	-3600	-3500	-3500	-3500	-3500	-3500
Add Product Exports	8516	6255	9000	9000	8000	8000	8000	8000
Net Regional Transfers - In/+Out	286	223	220	200	200	200	200	200
Product Inventory +Build/-Draw	310	-176	49	0	0	0	0	0
Add Own Consumption	1059	1063	1059	999	1057	1108	1198	1192
Total	16788	14654	17851	17257	16896	17485	18491	18467
Per Day	46.0	40.0	48.9	47.3	46.3	47.8	50.7	50.6
Feedstock Sources (Thousands of Cubic Metres Per Day)								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light	0.0	1.4	2.3	3.6	2.0	0.0	0.0	0.0
Imports	45.0	38.7	46.6	43.7	44.3	47.8	50.7	50.6
Inventory Change	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	46.0	40.0	48.9	47.3	46.3	47.8	50.7	50.6
Other Material	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	46.0	40.0	48.9	47.3	46.3	47.8	50.7	50.6
High Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	11110	11132	11123	10558	11139	11697	12594	12576
Deduct Product Imports	-4492	-3844	-3600	-3500	-3500	-3500	-3500	-3500
Add Product Exports	8516	6255	9000	9000	8000	8000	8000	8000
Net Regional Transfers - In/+Out	286	223	220	200	200	200	200	200
Product Inventory +Build/-Draw	310	-176	49	0	0	0	0	0
Add Own Consumption	1059	1063	1059	999	1057	1110	1198	1192
Total	16789	14654	17851	17257	16896	17506	18491	18467
Per Day	46.0	40.0	48.9	47.3	46.3	47.8	50.7	50.6
Feedstock Sources (Thousands of Cubic Metres Per Day)								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light	0.0	1.4	2.3	3.6	2.0	0.0	0.0	0.0
Imports	45.0	38.7	46.6	43.7	44.3	47.8	50.7	50.6
Inventory Change	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	46.0	40.0	48.9	47.3	46.3	47.8	50.7	50.6
Other Material	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	46.0	40.0	48.9	47.3	46.3	47.8	50.7	50.6

Note: [a] 1991 and 1992 based on actual data from Statistics Canada Catalogue 45-004 and NEB.

Table A7-15 (Continued)

Refinery Feedstock Requirements and Sources - Canada and Regions

Québec								
Current Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	16190	16627	16799	17171	17390	17930	19466	20512
Deduct Product Imports	-2435	-3199	-2700	-2700	-2700	-2700	-2670	-3790
Add Product Exports	1172	1417	1200	1000	1000	1000	1000	1000
Net Regional Transfers - In/+Out	664	1135	600	600	600	600	600	600
Product Inventory +Build/-Draw	-318	-370	11	0	0	0	0	0
Add Own Consumption	853	876	883	905	918	946	1031	1087
Total	16126	16486	16794	16976	17208	17776	19427	19409
Per Day	44.2	45.0	46.0	46.5	47.1	48.6	53.2	53.2
Feedstock Sources								
(Thousands of Cubic Metres Per Day)								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Light	1.9	0.3	1.7	1.6	0.0	0.0	0.0	0.0
Imports	40.9	41.4	44.3	44.9	47.1	48.6	53.2	53.2
Inventory Change	0.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	44.2	45.0	46.0	46.5	47.1	48.6	53.2	53.2
Other Material	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	44.2	45.0	46.0	46.5	47.1	48.6	53.2	53.2
High Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	16190	16627	16673	16908	16982	17258	17988	18819
Deduct Product Imports	-2435	-3199	-2700	-2700	-2700	-2700	-2700	-2700
Add Product Exports	1172	1417	1200	1000	1000	1000	1000	1000
Net Regional Transfers - In/+Out	664	1135	600	600	600	600	600	600
Product Inventory +Build/-Draw	-318	-370	11	0	0	0	0	0
Add Own Consumption	853	876	876	891	895	909	947	990
Total	16126	16486	16660	16699	16777	17067	17835	18709
Per Day	44.2	45.0	45.6	45.7	46.0	46.6	48.9	51.3
Feedstock Sources								
(Thousands of Cubic Metres Per Day)								
	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	1.9	0.3	1.7	1.6	0.0	0.0	0.0	0.0
Light	40.9	41.4	43.9	44.1	46.0	46.6	48.9	51.3
Imports	0.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
Inventory Change	44.2	45.0	45.6	45.7	46.0	46.6	48.9	51.3
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Material	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	44.2	45.0	45.6	45.7	46.0	46.6	48.9	51.3

Note: [a] 1991 and 1992 based on actual data from Statistics Canada Catalogue 45-004 and NEB.

Table A7-15 (Continued)

Refinery Feedstock Requirements and Sources - Canada and Regions

Ontario								
Current Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	24947	24957	25786	26856	28236	32687	35568	38201
Deduct Product Imports	-973	-1039	-1000	-1000	-1000	-1000	-3825	-6025
Add Product Exports	3439	2979	2500	2500	2500	2500	2500	2500
Net Regional Transfers - In/+Out	-2121	-2609	-2280	-2800	-2800	-2800	-2800	-2800
Product Inventory +Build/-Draw	-713	-469	-306	0	0	0	0	0
Add Own Consumption	2152	2151	2221	2318	2440	2831	3088	3331
Total	26732	25970	26922	27873	29376	34218	34531	35207
Per Day	73.2	71.0	73.8	76.4	80.5	93.5	94.6	96.5
Feedstock Sources (Thousands of Cubic Metres Per Day)								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	10.1	10.5	11.8	13.1	13.4	14.2	15.2	15.8
Light	57.0	54.4	59.4	57.5	61.8	74.0	74.1	51.5
Imports	0.5	0.9	1.5	0.5	0.0	0.0	0.0	23.9
Inventory Change	1.3	-0.1	-4.2	0.0	0.0	0.0	0.0	0.0
Subtotal	68.9	65.7	68.5	71.1	75.2	88.2	89.3	91.2
Other Material	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Total	73.2	71.0	73.8	76.4	80.5	93.5	94.6	96.5
High Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	24947	24957	25673	26570	27638	30833	32958	34893
Deduct Product Imports	-973	-1039	-1000	-1000	-1000	-1000	-1000	-2275
Add Product Exports	3439	2979	2500	2500	2500	2500	2500	2500
Net Regional Transfers - In/+Out	-2121	-2609	-2280	-2800	-2800	-2800	-2800	-2800
Product Inventory +Build/-Draw	-713	-469	-306	0	0	0	0	0
Add Own Consumption	2152	2151	2210	2289	2381	2650	2835	3010
Total	26732	25970	26798	27559	28719	32183	34493	35327
Per Day	73.2	71.0	73.4	75.5	78.7	87.9	94.5	96.8
Feedstock Sources (Thousands of Cubic Metres Per Day)								
	10.1	10.5	11.8	13.1	13.4	14.2	15.2	15.8
Domestic: Heavy	57.0	54.4	59.4	56.6	60.0	68.4	74.0	74.0
Light	0.5	0.9	1.5	0.5	0.0	0.0	0.0	1.7
Imports	1.3	-0.1	-4.5	0.0	0.0	0.0	0.0	0.0
Inventory Change	68.9	65.7	68.2	70.2	73.4	82.6	89.2	91.5
Subtotal	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Other Material	Total	73.2	71.0	73.4	75.5	78.7	87.9	96.8

Note: [a] 1991 and 1992 based on actual data from Statistics Canada Catalogue 45-004 and NEB.

Table A7-15 (Continued)

Refinery Feedstock Requirements and Sources - Canada and Regions

Prairies & NWT								
Current Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	15267	14998	15379	15568	15823	16540	17819	18967
Deduct Product Imports	-87	-65	-50	-50	-50	-50	-50	-50
Add Product Exports	1151	1320	1000	800	800	700	300	200
Net Regional Transfers - In/+Out	4412	4193	4700	6500	7500	7500	6550	5400
Product Inventory +Build/-Draw	299	-348	-37	0	0	0	0	0
Add Own Consumption	981	967	1016	1029	1045	1099	1198	1292
Total	22023	21064	22007	23847	25118	25789	25817	25809
Per Day	60.3	57.6	60.3	65.3	68.8	70.5	70.7	70.7
Feedstock Sources								
(Thousands of Cubic Metres Per Day)								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	6.0	6.1	6.2	6.4	6.4	7.0	7.9	8.2
Light	50.0	47.8	52.5	54.6	58.1	59.2	58.5	58.2
Imports	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Inventory Change	0.0	-0.6	-2.7	0.0	0.0	0.0	0.0	0.0
Subtotal	56.0	53.3	56.0	61.0	64.5	66.2	66.4	66.4
Other Material	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Total	60.3	57.6	60.3	65.3	68.8	70.5	70.7	70.7
High Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	15267	14998	15373	15545	15782	16450	17746	18947
Deduct Product Imports	-87	-65	-50	-50	-50	-50	-50	-50
Add Product Exports	1151	1320	1000	800	800	700	300	200
Net Regional Transfers - In/+Out	4412	4193	4700	6500	7500	7500	6625	5425
Product Inventory +Build/-Draw	299	-348	-37	0	0	0	0	0
Add Own Consumption	981	967	1016	1028	1044	1101	1206	1306
Total	22023	21064	22001	23823	25076	25701	25827	25828
Per Day	60.3	57.6	60.3	65.3	68.7	70.2	70.8	70.8
Feedstock Sources								
(Thousands of Cubic Metres Per Day)								
	6.0	6.1	6.2	6.4	6.4	7.0	7.9	8.2
Domestic: Heavy	50.0	47.8	52.5	54.6	58.0	58.9	58.6	58.3
Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Imports	0.0	-0.6	-2.7	0.0	0.0	0.0	0.0	0.0
Inventory Change	56.0	53.3	56.0	61.0	64.4	65.9	66.5	66.5
Subtotal	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Other Material	60.3	57.6	60.3	65.3	68.7	70.2	70.8	70.8
Total	60.3	57.6	60.3	65.3	68.7	70.2	70.8	70.8

Note: [a] 1991 and 1992 based on actual data from Statistics Canada Catalogue 45-004 and NEB.

Table A7-15 (Continued)

Refinery Feedstock Requirements and Sources - Canada and Regions

British Columbia & Yukon								
Current Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	9802	9671	9822	9951	10086	10815	11761	12767
Deduct Product Imports	-646	-472	-800	-700	-1900	-2500	-4475	-6675
Add Product Exports	1490	1861	500	500	500	300	300	300
Net Regional Transfers - In/+Out	-3241	-2942	-3240	-4500	-5500	-5500	-4550	-3400
Product Inventory +Build/-Draw	-12	-225	199	0	0	0	0	0
Add Own Consumption	457	449	455	462	469	501	545	590
Total	7850	8342	6936	5713	3654	3617	3581	3582
Per Day	21.5	22.8	19.0	15.7	10.0	9.9	9.8	9.8
Feedstock Sources (Thousands of Cubic Metres Per Day)								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Domestic: Heavy	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
Light	18.7	20.9	18.2	15.2	9.7	9.6	9.5	9.5
Imports	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Inventory Change	2.3	1.4	0.3	0.0	0.0	0.0	0.0	0.0
Subtotal	21.5	22.8	19.0	15.7	10.0	9.9	9.8	9.8
Other Material	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	21.5	22.8	19.0	15.7	10.0	9.9	9.8	9.8
High Technology Case								
Feedstock Requirements [a] (Thousands of Cubic Metres)	1991	1992	1993	1994	1995	2000	2005	2010
Domestic Product Demand	9802	9671	9822	9950	10075	10698	11548	12512
Deduct Product Imports	-646	-472	-800	-700	-1875	-2375	-4165	-6360
Add Product Exports	1490	1861	500	500	500	300	300	300
Net Regional Transfers - In/+Out	-3241	-2942	-3240	-4500	-5500	-5500	-4625	-3425
Product Inventory +Build/-Draw	-12	-225	199	0	0	0	0	0
Add Own Consumption	457	449	455	462	468	496	534	578
Total	7850	8342	6936	5712	3668	3618	3592	3605
Per Day	21.5	22.8	19.0	15.6	10.0	9.9	9.8	9.9
Feedstock Sources (Thousands of Cubic Metres Per Day)								
	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
Domestic: Heavy	18.7	20.9	18.2	15.1	9.7	9.6	9.5	9.6
Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Imports	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Inventory Change	2.3	1.4	0.3	0.0	0.0	0.0	0.0	0.0
Subtotal	21.5	22.8	19.0	15.6	10.0	9.9	9.8	9.9
Other Material	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	21.5	22.8	19.0	15.6	10.0	9.9	9.8	9.9

Note: [a] 1991 and 1992 based on actual data from Statistics Canada Catalogue 45-004 and NEB.

Table A7-16

Supply and Disposition of Domestic Crude Oil and Equivalent - Canada

(Thousands of Cubic Metres Per Day)

Current Technology Case								
Light Crude Oil and Equivalent	1991	1992	1993	1994	1995	2000	2005	2010
Actual Production and Productive Capacity								
East Coast	0.7	2.3	3.8	6.0	3.4	20.5	35.8	34.2
W. Canada	187.5	195.0	206.8	211.4	218.7	194.2	175.6	149.2
Total Domestic Supply	188.2	197.3	210.6	217.4	222.1	214.7	211.4	183.4
Disposition of Domestic Supply								
Atlantic	0.0	1.4	2.3	3.6	2.0	0.0	0.0	0.0
Quebec	1.9	0.3	1.7	1.6	0.0	0.0	0.0	0.0
Ontario	57.0	54.4	59.4	57.5	61.8	74.0	74.1	51.5
Prairies & NWT	50.0	47.8	52.5	54.6	58.1	59.2	58.5	58.2
British Columbia & Yukon	18.7	20.9	18.2	15.2	9.7	9.6	9.5	9.5
Total Canada	127.6	124.8	134.1	132.5	131.7	142.7	142.1	119.2
Exports	60.6	72.5	76.5	84.9	90.4	72.0	69.3	64.2
Heavy Crude Oil								
Actual Production and Productive Capacity	75.6	78.5	85.6	98.3	113.0	134.2	109.1	95.7
Total Domestic Supply	75.6	78.5	85.6	98.3	113.0	134.2	109.1	95.7
Disposition of Domestic Supply								
Atlantic	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Quebec	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Ontario	10.1	10.5	11.8	13.1	13.4	14.2	15.2	15.8
Prairies & NWT	6.0	6.1	6.2	6.4	6.4	7.0	7.9	8.2
British Columbia & Yukon	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
Total Canada	17.1	17.2	18.5	20.0	20.1	21.5	23.4	24.3
Exports	58.5	61.3	67.1	78.3	92.9	112.7	85.7	71.4
High Technology Case								
Light Crude Oil and Equivalent								
Actual Production and Productive Capacity								
East Coast	0.7	2.3	3.8	6.0	3.4	24.5	45.8	42.8
W. Canada	187.5	195.0	206.8	212.1	220.6	195.4	184.0	171.8
Total Domestic Supply	188.2	197.3	210.6	218.1	224.0	219.9	229.8	214.6
Disposition of Domestic Supply								
Atlantic	0.0	1.4	2.3	3.6	2.0	0.0	0.0	0.0
Quebec	1.9	0.3	1.7	1.6	0.0	0.0	0.0	0.0
Ontario	57.0	54.4	59.4	56.6	60.0	68.4	74.0	74.0
Prairies & NWT	50.0	47.8	52.5	54.6	58.0	58.9	58.6	58.3
British Columbia & Yukon	18.7	20.9	18.2	15.1	9.7	9.6	9.5	9.6
Total Canada	127.6	124.8	134.1	131.5	129.8	136.9	142.1	141.8
Exports	60.6	72.5	76.5	86.6	94.2	83.0	87.7	72.8
Heavy Crude Oil								
Actual Production and Productive Capacity	75.6	78.5	85.6	98.4	115.3	158.1	149.0	143.6
Total Domestic Supply	75.6	78.5	85.6	98.4	115.3	158.1	149.0	143.6
Disposition of Domestic Supply								
Atlantic	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Quebec	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Ontario	10.1	10.5	11.8	13.1	13.4	14.2	15.2	15.8
Prairies & NWT	6.0	6.1	6.2	6.4	6.4	7.0	7.9	8.2
British Columbia & Yukon	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
Total Canada	17.1	17.2	18.5	20.0	20.1	21.5	23.4	24.3
Exports	58.5	61.3	67.1	78.4	95.2	136.6	125.6	119.3

Appendix 8 - Natural Gas Liquids

Table A8-1

Historical Data - Natural Gas Liquids Production - Canada

(Thousands of Cubic Metres per Day)

	Ethane		Propane		Butanes			Pentanes Plus
	Gas Plants[a]	Gas Plants[a]	Refineries[b]	Total	Gas Plants[a]	Refineries[b]	Total	Gas Plants[a,c]
1973	1.1	16.4	2.6	19.0	10.8	0.7	11.5	27.6
1974	1.7	16.3	2.6	18.9	11.0	0.9	11.9	26.4
1975	1.7	17.0	3.1	20.1	11.2	1.0	12.2	24.8
1976	1.5	16.2	3.5	19.7	10.8	1.0	11.8	21.8
1977	1.8	16.3	3.7	20.0	10.9	1.4	12.3	21.5
1978	4.8	15.5	3.6	19.1	10.1	1.5	11.6	19.4
1979	10.8	16.9	3.5	20.4	10.9	1.9	12.8	19.3
1980	13.1	16.2	3.8	20.0	10.2	2.3	12.5	17.4
1981	13.8	15.8	3.7	19.5	9.8	2.9	12.7	16.7
1982	12.7	15.8	3.2	19.0	9.8	2.5	12.3	16.4
1983	13.9	15.3	3.5	18.8	9.5	2.6	12.1	15.4
1984	16.6	16.5	3.6	20.1	9.8	2.4	12.2	16.1
1985	18.1	16.9	3.1	20.0	9.7	2.2	11.9	17.2
1986	20.9	17.4	3.6	21.0	9.7	2.3	12.0	17.4
1987	25.4	19.3	4.6	23.9	10.7	2.1	12.8	18.6
1988	29.5	20.7	4.2	24.9	11.4	2.5	13.9	19.1
1989	28.1	21.0	4.5	25.5	11.2	2.0	13.2	19.5
1990	28.7	21.4	4.3	25.7	11.0	1.8	12.8	19.0
1991	29.5	21.4	3.7	25.1	11.7	2.2	13.9	20.1
1992	28.3	23.9	3.5	27.4	12.2	2.7	14.9	21.9

Notes:[a] Provincial NGL gas plant production figures have been adjusted upwards to account for each gas liquid component of mixes injected in miscible flood or other injection schemes. Production of specification ethane did not begin until 1974.

[b] Refinery production is net of own use. Source: 1970 - 1974 Statistics Canada, 1975 - 1986 NEB 145 summaries, and 1987 - 1992 Statistics Canada.

[c] Includes field condensate production.

Table A8-2

Natural Gas Liquids Production - Canada

(Thousands of Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Ethane											
Gas Plants	28.3	31.6	33.9	36.6	37.6	38.9	39.8	40.3	41.2	43.2	39.4
Propane											
Gas Plants	23.9	25.5	26.7	28.0	28.8	29.7	30.3	30.7	31.3	32.6	27.8
Refineries	3.5	3.7	3.7	3.8	3.8	3.9	3.9	4.0	4.0	4.2	4.2
Total	27.4	29.2	30.4	31.8	32.6	33.6	34.2	34.7	35.3	36.8	32.0
Butanes											
Gas Plants	12.2	13.0	13.5	14.1	14.5	14.9	15.2	15.4	15.6	16.2	13.9
Refineries	2.7	2.9	3.0	3.0	3.0	3.1	3.1	3.2	3.2	3.3	3.3
Total	14.9	15.9	16.5	17.1	17.5	18.0	18.3	18.6	18.8	19.5	17.2
Pentanes Plus[a]											
Gas Plants	21.9	24.1	24.9	25.6	26.3	27.1	27.6	27.9	28.4	29.4	25.9
High Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Ethane											
Gas Plants	28.3	31.6	33.4	35.0	35.1	35.3	35.1	34.7	34.8	38.0	43.9
Propane											
Gas Plants	23.9	25.5	26.2	26.9	27.0	27.1	27.0	26.7	26.7	28.9	32.9
Refineries	3.5	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9	4.1	4.2
Total	27.4	29.2	29.9	30.6	30.8	30.9	30.8	30.6	30.6	33.0	37.1
Butanes											
Gas Plants	12.2	13.0	13.3	13.5	13.6	13.6	13.5	13.4	13.4	14.4	16.2
Refineries	2.7	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.2	3.3
Total	14.9	15.9	16.3	16.5	16.6	16.6	16.6	16.5	16.5	17.6	19.5
Pentanes Plus[a]											
Gas Plants	21.9	24.1	24.5	24.6	24.6	24.7	24.6	24.3	24.3	26.0	29.4

Note: [a] Includes field condensate

Table A8-3

Ethane Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Bigoray (Chevron)*	79	77	74	71	71	70	69	68	67	0	0
Bonnie Glen (Imperial, 2 plants)	2102	2108	1959	1765	1934	2138	2328	2324	1643	652	202
Brazeau (Chevron)*	185	228	211	162	116	95	72	56	64	49	51
Caroline (Shell)*	0	890	2198	2198	2198	2198	2198	2198	2198	1308	618
Judy Creek (Imperial)*	3162	3662	3705	3776	3550	2305	2781	2315	1893	1092	611
Jumping Pound (Shell)	353	380	385	357	328	301	276	254	233	152	99
Kaybob South (Chevron)*	875	545	231	40	0	0	0	0	0	0	0
Mitsue (Chevron)*	248	64	0	0	0	0	0	0	0	0	0
Pembina (Imperial)*	600	608	604	596	564	537	505	497	630	555	413
Rainbow (2 Plants)*	527	477	423	390	350	314	282	253	227	171	95
Turner Valley (Pembina)	178	155	134	117	102	90	79	70	61	34	20
Waterton (Shell)	704	694	625	540	472	413	364	321	285	164	90
Wembley (Crestar)*	297	310	278	257	236	220	209	205	205	240	227
Other*	922	831	745	707	683	597	631	589	516	304	167
Subtotal	10232	11029	11572	10976	10604	9278	9794	9150	8022	4721	2593
Alberta Straddle Plants											
Cochrane (A.N.G.C.)	5895	6703	7824	9360	9652	10011	10255	10402	10630	11209	9815
Ellerslie (Amoco)	1864	1960	2009	2028	2048	2068	2089	2109	2129	2236	2348
Empress (3 plants)	10189	11730	12170	12986	13391	13889	14228	14432	14748	15552	15294
Fort Saskatchewan (Midwest)*	53	53	53	53	53	53	53	53	53	53	53
Subtotal	18001	20446	22056	24427	25144	26021	26625	26996	27560	29050	27510
Field Plant Production											
From Unconnected Reserves											
and Reserve Additions	0	0	175	1055	1787	3541	3306	4105	5490	9354	9239
Alberta - Total	28233	31475	33803	36458	37535	38840	39725	40251	41072	43125	39342
Saskatchewan - Total	84	93	94	97	96	93	90	86	82	56	40
Canada - Total	28317	31568	33897	36555	37631	38933	39815	40337	41154	43181	39382

Notes:[*] All or part of the production is entrained in an NGL mix.

Table A8-3 (Continued)

Ethane Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

High Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Subtotal[a]	10232	11029	11572	10976	10604	9278	9794	9150	8022	4721	2593
Alberta Straddle Plants											
Cochrane (A.N.G.C.)	5895	6703	7686	8942	8958	8996	8943	8834	8862	9746	11387
Ellerslie (Amoco)	1864	1960	2009	2028	2048	2068	2089	2109	2129	2236	2348
Empress (3 plants)	10189	11730	11956	12406	12428	12481	12407	12256	12295	13522	15798
Fort Saskatchewan (Midwest)*	53	53	53	53	53	53	53	53	53	53	53
Subtotal	18001	20446	21704	23429	23487	23598	23492	23252	23339	25557	29586
Field Plant Production											
From Unconnected Reserves											
and Reserves Additions	0	0	0	532	925	2299	1716	2219	3383	7668	11704
Alberta - Total	28233	31475	33276	34937	35016	35175	35002	34621	34744	37946	43883
Saskatchewan - Total	84	93	95	100	100	98	95	92	88	64	48
Canada - Total	28317	31568	33371	35037	35116	35273	35097	34713	34832	38010	43931

Notes:[a] See current technology case for details.

[*] All or part of the production is entrained in an NGL mix.

Table A8-4

Propane Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Bigoray (Chevron)*	127	134	139	143	140	138	136	134	133	25	18
Bigstone (Amoco, 2 Plants)*	38	37	34	30	27	25	22	20	18	11	7
Bonnie Glen (Imperial, 2 Plants)	1032	1063	965	850	1064	1191	1168	1072	963	429	244
Brazeau (Chevron)*	103	126	118	92	66	67	55	47	63	65	70
Brazeau (Petro-Canada, 2 Plants)	236	223	197	168	145	124	108	92	80	40	18
Brazeau (Wolcott)*	118	104	94	84	74	66	59	52	46	27	13
Caroline (Shell)*	0	523	1045	1045	1045	1045	1045	1045	1045	622	294
Caroline (Northridge)*	27	26	24	21	19	17	15	14	12	8	4
Caroline (Amoco, 2 Plants)*	199	172	138	113	97	82	73	67	60	40	32
Carson Creek (Mobil)	182	191	181	163	145	129	113	100	88	38	16
Carstairs (Home)	180	180	154	131	111	94	80	68	58	10	5
Cranberry (2 Plants)*	99	93	84	75	67	60	55	50	44	29	22
Crossfield (Petrogas)	70	70	63	55	48	42	37	32	28	15	2
Dunvegan (Anderson)*	143	142	136	130	124	118	112	107	101	78	60
Elmworth (Canadian Hunter)*	189	180	150	123	102	85	70	58	48	20	3
Elmworth (Imperial)*	312	280	223	176	140	108	88	73	57	23	12
Ferrier (Amerada)	292	268	243	220	199	177	157	142	128	77	47
Ferrier (Numac)*	23	20	18	16	15	13	12	11	10	6	3
Garrington (2 Plants)*	110	101	88	77	67	59	52	46	42	20	13
Gilby (Gulf)	76	70	57	46	36	29	23	18	10	4	2
Harmattan-Elkton (Mobil)	353	333	298	263	232	205	194	181	158	76	31
Homeglen-Rimbey (Gulf)	1004	1092	1016	901	792	701	615	544	471	275	83
Hussar (Husky)	62	57	51	47	42	38	34	30	27	17	10
Judy Creek (Imperial)*	1267	1297	1261	1182	1086	976	871	795	725	482	311
Jumping Pound (Shell)	153	164	164	155	142	131	120	110	101	65	38
Kakwa (Unocal)*	90	78	67	58	50	44	38	33	28	14	1
Karr (Canadian Hunter)*	217	216	207	192	178	166	154	144	134	94	67
Kaybob (Petro-Canada)*	133	184	225	254	231	179	135	101	76	16	0
Kaybob South (Chevron)*	495	482	413	340	277	227	187	155	129	21	15
Kaybob South (Amoco, 2 Plants)	229	241	206	171	142	118	99	83	69	31	8
Knopcik (NCO)*	70	59	46	36	29	23	18	14	12	4	3
Minnehik-Buck Lake (Norcen)*	91	81	69	58	50	43	37	31	28	16	10
Mitsue (Chevron)*	410	410	354	289	233	185	146	114	89	28	11
Nevis (Morrison)	234	219	200	181	160	143	129	116	106	66	49
Nipisi (Amoco)*	173	173	159	141	125	111	98	87	77	42	23
Niton (2 Plants)*	46	44	38	32	27	22	19	17	14	7	2
Paddle River (Can Oxy)*	27	28	27	26	24	23	21	20	18	13	10
Peco (Conoco)*	136	134	123	108	97	87	79	71	66	46	33
Pembina (Imperial)*	489	494	494	489	465	444	420	411	487	426	325
Pembina (Chevron)*	66	58	44	34	26	20	16	12	9	1	0
Pine Creek (Suncor)*	27	26	24	22	20	18	17	15	14	9	6
Quirk Creek (Imperial)*	114	127	134	127	117	107	99	91	84	57	39
Rainbow (2 Plants)*	850	789	715	666	600	541	488	441	398	471	351
Ricinus (Amoco)*	427	413	385	358	325	295	268	242	218	103	51
Simonette (Suncor)*	41	50	55	51	46	42	39	35	32	20	13
Strachan (Gulf)*	177	157	125	94	70	51	40	32	25	7	4
Sylvan Lake (2 Plants)*	92	86	77	69	61	56	51	47	43	27	17
Three Hills Creek (Atlantis)	18	17	15	14	12	11	10	9	8	5	3
Turner Valley (Pembina)	113	99	87	76	67	59	52	46	40	22	12
Twinning (Canadian 88)*	28	34	41	45	44	43	41	39	38	31	25
Waterton (Shell)	310	306	280	250	223	200	180	161	146	91	57
Wembley (Crestar)*	204	212	190	175	160	150	144	142	143	173	167
Other*	2692	2798	2701	2453	2274	2100	1918	1752	1621	999	612
Subtotal	14394	14961	14442	13115	12158	11228	10257	9369	8668	5342	3272

Table A8-4 (continued)

Propane Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Straddle Plants											
Cochrane (A.N.G.C.)*	1944	2174	2537	3036	3130	3247	3326	3374	3448	3635	2944
Ellerslie (Amoco)*	851	875	884	892	901	910	919	928	937	984	1003
Empress (3 plants)*	5532	5865	6085	6493	6695	6944	7114	7216	7374	7776	6298
Fort Saskatchewan (Midwest)*	55	55	55	55	55	55	55	55	55	55	55
Subtotal	8382	8969	9561	10476	10781	11156	11414	11573	11814	12450	10300
Alberta - Total	22776	23930	24003	23591	22939	22384	21671	20942	20482	17792	13572
British Columbia - Total	774	865	915	805	721	664	616	565	515	249	153
Saskatchewan - Total	298	326	290	248	212	182	157	136	118	40	14
Manitoba - Total	9	9	8	8	7	7	6	6	5	4	2
Field Plant Production From Unconnected Reserves and Reserves Additions	0	393	1448	3367	4900	6457	7863	9053	10151	14498	13408
Frontier - Total	0	0	0	0	0	0	0	0	0	0	658
Canada - Total	23857	25523	26664	28019	28779	29694	30313	30702	31271	32583	27807
High Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Subtotal[a]	14394	14961	14442	13115	12158	11228	10257	9369	8668	5342	3272
Alberta Straddle Plants											
Cochrane (A.N.G.C.)*	1944	2174	2493	2900	2905	2918	2900	2865	2874	3161	3693
Ellerslie (Amoco)*	851	875	884	892	901	910	919	928	937	984	1003
Empress (3 plants)*	5532	5865	5978	6203	6214	6240	6204	6128	6147	6761	7899
Fort Saskatchewan (Midwest)*	55	55	55	55	55	55	55	55	55	55	55
Subtotal	8382	8969	9410	10050	10075	10123	10078	9976	10013	10961	12650
Alberta - Total	22776	23930	23852	23165	22233	21351	20335	19345	18681	16303	15922
British Columbia - Total	774	865	915	807	722	665	618	567	516	252	152
Saskatchewan - Total	298	326	290	248	212	182	157	136	118	40	14
Manitoba - Total	9	9	8	8	7	7	6	6	5	4	2
Field Plant Production From Unconnected Reserves and Reserves Additions	0	393	1163	2673	3797	4881	5846	6630	7393	12274	16777
Canada - Total	23857	25523	26228	26901	26971	27086	26962	26684	26713	28873	32867

Note:[a] See current technology case for details.

[*] All or part of the production is entrained in an NGL mix.

Table A8-5

Butanes Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Bigoray (Chevron)*	61	64	67	69	67	66	66	65	64	13	10
Bigstone (Amoco, 2 Plants)*	33	32	29	26	24	21	19	18	16	10	6
Bonnie Glen (Imperial, 2 Plants)	447	458	414	363	448	485	438	456	413	168	100
Brazeau (Chevron)*	52	64	59	46	34	35	28	24	32	34	36
Brazeau (Petro-Canada, 2 Plants)*	175	165	144	123	106	91	78	67	58	29	12
Brazeau (Wolcott)*	88	76	67	59	52	46	41	36	32	17	7
Caroline (Shell)*	0	604	1205	1205	1205	1205	1205	1205	1205	718	339
Caroline (Northridge)*	23	23	20	18	16	15	13	12	11	7	4
Caroline (Amoco, 2 Plants)*	162	142	114	93	78	65	58	52	46	29	22
Carson Creek (Mobil)	125	132	126	114	101	90	79	70	61	31	12
Carstairs (Home)	162	160	135	114	96	80	67	57	48	5	2
Cranberry (2 Plants)*	125	120	112	104	93	84	77	70	63	41	30
Crossfield (Petrogas)	43	42	39	33	29	25	22	19	16	8	1
Dunvegan (Anderson)*	102	101	96	94	87	82	78	74	70	54	42
Elmworth (Canadian Hunter)*	106	102	85	71	59	49	41	34	29	13	3
Elmworth (Imperial)*	132	118	94	74	59	46	38	31	25	9	2
Ferrier (Amerada)	137	126	114	104	94	83	74	67	60	36	22
Ferrier (Numac)*	24	22	19	17	15	14	12	11	10	6	4
Garrington (2 Plants)*	74	69	60	53	47	42	37	33	30	15	10
Gilby (Gulf)	63	59	48	40	31	24	19	15	8	3	0
Harmattan-Elkton (Mobil)	278	260	232	206	182	161	151	141	124	59	25
Homeglen-Rimbey (Gulf)	528	273	235	477	423	377	333	296	259	156	49
Hussar (Husky)	54	51	46	42	38	34	31	28	25	16	10
Judy Creek (Imperial)*	820	849	827	773	706	628	558	512	471	310	204
Jumping Pound (Shell)	114	123	125	116	106	98	90	83	76	50	33
Kakwa (Unocal)*	78	67	58	51	44	38	33	28	24	12	1
Karr (Canadian Hunter)*	142	142	136	126	117	109	102	95	88	62	44
Kaybob (Petro-Canada)*	120	137	151	164	150	120	95	75	60	22	10
Kaybob South (Chevron)*	417	408	350	287	234	192	156	130	108	44	12
Kaybob South (Amoco, 2 Plants)*	184	193	166	138	114	95	79	66	55	24	5
Knopcik (NCO)*	57	48	37	29	23	19	14	11	9	3	2
Minnehik-Buck Lake (Norcen)*	56	48	40	33	28	24	21	17	15	9	5
Mitsue (Chevron)*	283	288	255	214	178	146	120	98	80	29	12
Nevis (Morrison)	165	149	132	117	101	89	79	69	63	36	26
Nipisi (Amoco)*	141	140	129	114	101	90	80	71	63	35	19
Niton (2 Plants)*	46	43	36	30	25	21	18	15	13	6	2
Paddle River (Can Oxy)*	18	18	18	17	16	15	14	13	12	9	6
Peco (Conoco)*	116	115	106	94	84	76	69	62	58	41	29
Pembina (Imperial)*	190	192	191	190	180	172	163	159	187	163	125
Pembina (Chevron)*	48	46	37	30	25	20	16	13	11	3	0
Pine Creek (Suncor)*	23	22	20	19	17	16	14	13	12	8	5
Quirk Creek (Imperial)*	100	110	115	109	100	91	84	77	70	46	31
Rainbow (2 Plants)*	505	472	429	403	363	328	296	268	242	335	263
Ricinus (Amoco)*	245	238	223	208	189	167	147	128	110	34	8
Simonette (Suncor)*	33	39	43	39	35	32	29	27	24	15	10
Strachan (Gulf)*	118	108	89	68	51	37	29	23	18	3	2
Sylvan Lake (2 Plants)*	68	65	59	54	49	44	41	37	35	22	15
Three Hills Creek (Atlantis)	16	15	14	13	11	10	10	9	8	5	3
Turner Valley (Pembina)	73	64	56	49	43	38	34	30	26	14	7
Twinning (Mobil)*	19	22	25	27	26	25	24	23	22	18	14
Waterton (Shell)	260	258	235	208	185	164	146	131	118	72	43
Wembley (Crestar)*	133	139	127	126	124	122	122	124	129	170	161
Other*	775	799	796	755	696	638	581	541	502	315	189
Subtotal	8357	8620	8585	8146	7505	6884	6269	5829	5414	3392	2034

Table A8-5 (continued)

Butanes Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Straddle Plants											
Cochrane (A.N.G.C.)*	607	652	761	911	939	974	998	1012	1034	1091	883
Ellerslie (Amoco)*	295	286	289	292	295	298	301	304	307	322	338
Empress (3 plants)*	2162	2212	2295	2449	2525	2619	2683	2721	2781	2933	2375
Fort Saskatchewan (Midwest)*	38	38	38	38	38	38	38	38	38	38	38
Subtotal	3102	3188	3383	3690	3797	3929	4020	4075	4160	4384	3634
Alberta - Total	11459	11808	11968	11836	11302	10813	10289	9904	9574	7776	5668
British Columbia - Total	503	541	572	503	451	415	385	353	322	156	95
Saskatchewan - Total	185	202	180	154	132	113	98	85	74	25	9
Manitoba - Total	3	3	3	3	2	2	2	2	2	1	1
Field Plant Production From Unconnected Reserves and Reserves Additions	0	478	819	1604	2578	3560	4423	5031	5668	8232	7677
Frontier - Total	0	0	0	0	0	0	0	0	0	0	430
Canada - Total	12150	13032	13542	14100	14465	14903	15197	15375	15640	16190	13880
High Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants Subtotal[a]	8357	8620	8585	8146	7505	6884	6269	5829	5414	3392	2034
Alberta Straddle Plants											
Cochrane (A.N.G.C.)*	607	652	748	870	872	875	870	860	862	948	1108
Ellerslie (Amoco)*	295	286	289	292	295	298	301	304	307	322	338
Empress (3 plants)*	2162	2212	2255	2339	2344	2353	2340	2311	2318	2550	2979
Fort Saskatchewan (Midwest)*	38	38	38	38	38	38	38	38	38	38	38
Subtotal	3102	3188	3330	3539	3549	3564	3549	3513	3525	3858	4463
Alberta - Total	11459	11808	11915	11685	11054	10448	9818	9342	8939	7250	6497
British Columbia - Total	503	541	572	504	452	416	387	354	323	157	95
Saskatchewan - Total	185	202	180	154	132	113	98	85	74	25	9
Manitoba - Total	3	3	3	3	2	2	2	2	2	1	1
Field Plant Production From Unconnected Reserves and Reserves Additions	0	478	650	1195	1928	2632	3235	3606	4047	6932	9636
Canada - Total	12150	13032	13320	13541	13568	13611	13540	13389	13385	14365	16238

Notes:[a] See current technology case for details.

[*] All or part of the production is entrained in an NGL mix.

Table A8-6

Pentanes Plus Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Bigoray (Chevron)*	28	30	33	35	34	33	32	31	31	10	5
Bigstone (Amoco, 2 Plants)*	64	62	57	51	47	42	38	35	32	22	14
Bonnie Glen (Imperial, 2 Plants)	450	444	409	373	411	400	377	383	355	141	70
Brazeau (Chevron)*	32	39	35	27	20	25	22	19	25	30	32
Brazeau (Petro-Canada, 2 Plants)*	1405	1354	1208	1051	916	798	696	607	530	271	123
Brazeau (Wolcott)*	811	735	667	603	541	486	437	390	351	211	123
Brazeau (Gulf)	83	81	75	69	59	53	48	44	40	25	17
Caroline (Shell)*	0	1390	2730	2730	2730	2730	2730	2730	2730	1654	781
Caroline (Northridge)*	62	61	54	47	41	36	32	28	25	15	5
Caroline (Amoco, 2 Plants)*	268	246	203	168	144	122	108	98	85	54	41
Carson Creek (Mobil)	148	147	132	117	104	91	81	71	63	33	17
Carstairs (Home)	227	234	200	169	143	121	102	86	73	10	4
Cranberry (2 Plants)*	270	262	248	232	210	191	175	160	144	97	70
Crossfield (Petrogas)	100	99	90	77	67	58	50	43	37	18	1
Crossfield East (Amoco)	96	97	93	80	70	61	53	46	40	18	0
Dunvegan (Anderson)*	107	107	104	100	96	92	88	84	80	62	48
Edson (Talisman)	143	129	103	83	68	56	45	39	34	16	9
Elmworth (Canadian Hunter)*	126	125	105	87	73	62	52	44	37	18	4
Elmworth (Imperial, 2 plants)*	60	59	49	40	34	28	23	20	16	8	2
Ferrier (Amerada)	112	107	98	90	83	74	65	59	54	34	21
Ferrier (Numac)*	26	24	21	19	17	15	14	12	11	7	4
Garrington (2 Plants)*	107	105	97	85	77	68	60	54	48	26	13
Gilby (Gulf)	84	79	64	51	40	31	24	19	9	3	0
Gold Creek (Petro-Canada)	97	93	84	75	67	61	55	50	46	30	21
Greencourt (Can. Nat. Res.)	20	19	16	13	11	9	7	6	5	1	1
Harmattan Elkton (Mobil)	526	495	444	395	351	313	298	280	245	118	50
Homeglen-Rimbey (Gulf)	663	732	697	638	578	529	475	430	385	256	84
Hussar (Husky)	34	32	30	28	25	23	20	18	17	11	7
Josephine (Total)	69	49	30	18	13	11	10	8	7	4	2
Judy Creek (Imperial)*	664	681	649	600	553	509	467	428	392	259	164
Jumping Pound (Shell)	377	410	419	388	356	327	300	275	253	164	107
Kakwa (Unocal)*	158	136	117	101	87	75	65	56	48	23	1
Karr (Canadian Hunter)*	222	221	213	197	184	171	160	149	138	97	68
Kaybob (Petro-Canada)*	121	138	156	176	169	147	127	111	97	56	36
Kaybob South (Chevron)*	1814	1780	1526	1253	1019	833	676	560	465	194	48
Kaybob South (Amoco, 2 Plants)*	778	797	686	562	461	378	311	256	211	83	11
Knopcik (NCO)*	70	60	48	38	31	26	20	16	14	5	3
Lone Pine Creek (Mobil)	33	33	31	28	25	23	21	19	17	10	6
Minnehik-Buck Lake (Norcen)*	138	126	108	93	80	69	60	51	45	25	14
Mitsue (Chevron)*	134	143	134	120	105	92	80	69	59	27	12
Nevis (Morrison)	143	131	118	105	91	80	70	61	56	33	25
Nipisi (Amoco)*	117	115	105	94	83	74	66	59	52	30	17
Niton (2 Plants)*	66	61	51	42	35	30	24	19	17	8	2
Paddle River (Can Oxy)*	20	20	20	19	18	17	16	15	14	10	8
Peco (Conoco)*	224	224	210	188	169	154	140	126	117	80	55
Pembina (Imperial)*	104	111	116	119	111	104	98	93	102	83	61
Pembina (Chevron)*	43	42	35	29	24	20	17	14	12	3	0
Pine Creek (Suncor)*	50	48	44	40	38	34	31	28	26	16	10

Table A8-6 (continued)

Pentanes Plus Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Quirk Creek (Imperial)*	134	149	157	150	138	127	117	107	99	67	42
Rainbow (2 Plants)*	144	131	116	118	105	94	84	75	68	275	249
Ricinus (Amoco)*	218	226	215	202	180	162	146	130	116	64	39
Ricinus (Amerada)	78	71	55	43	35	28	23	18	16	11	8
Rosevear (Suncor, 2 Plants)	54	54	50	44	39	34	30	27	23	13	7
Simonette (Suncor)*	62	80	93	84	76	70	63	57	52	32	20
Sinclair (Crestar)	34	34	25	18	14	11	9	7	6	3	2
Strachan (Gulf)*	316	299	255	196	148	109	85	67	51	6	4
Strachan (Husky)	136	130	128	117	105	96	88	80	72	42	30
Sylvan Lake (2 Plants)*	71	68	64	59	54	50	46	43	41	27	20
Three Hills Creek (Atlantis)	21	20	19	17	15	14	13	12	11	7	4
Turner Valley (Pembina)	55	48	43	38	33	29	26	23	20	11	6
Twinning (Mobil)*	33	34	35	35	32	30	28	26	24	18	13
Wapiti (Amoco)	94	77	58	43	31	21	16	13	10	3	2
Waterton (Shell)	1094	1075	1000	919	843	775	713	657	607	415	285
Wembley (Crestar)*	340	349	331	353	359	367	377	390	408	548	485
Wildcat Hills (Petro Can)	56	55	50	46	42	38	35	31	29	18	11
Wilson Creek (Amerada)	51	50	43	36	30	26	22	19	17	8	4
Windfall (Amoco)	209	197	167	141	121	104	90	78	69	34	22
Other*	4884	5281	5293	4808	4379	4000	3671	3399	3156	2015	1163
Subtotal	19578	21141	21159	19210	17488	15967	14648	13558	12585	8026	4633
Alberta Straddle Plants											
Cochrane (A.N.G.C.)*	223	235	275	329	339	352	360	365	373	394	319
Ellerslie (Amoco)*	182	183	185	187	188	190	192	194	196	206	216
Empress (3 plants)*	933	955	991	1057	1090	1131	1159	1175	1201	1266	1026
Fort Saskatchewan (Midwest)*	17	17	17	17	17	17	17	17	17	17	17
Subtotal	1355	1390	1468	1590	1634	1690	1728	1751	1787	1883	1578
Alberta Total [a]	20933	22531	22627	20800	19122	17657	16376	15309	14372	9909	6211
British Columbia - Total [a]	882	1016	1075	945	847	780	724	664	605	292	179
Saskatchewan - Total [a]	114	125	111	95	81	70	60	52	45	15	5
Manitoba - Total	5	5	5	4	4	4	3	3	3	2	1
Field Plant Production											
From Unconnected Reserves and Reserves Additions	0	428	1118	3781	6235	8581	10455	11906	13387	19142	18047
Frontier - Total	0	0	0	0	0	0	0	0	0	0	1452
Canada - Total	21934	24105	24936	25625	26289	27092	27618	27934	28412	29360	25895

Note: [*] All or part of the production is entrained in an NGL mix.

[a] Includes field condensate.

Table A8-6 (continued)

Pentanes Plus Production from Selected Gas Plants - Canada and Provinces

(Cubic Metres per Day)

	High Technology Case										
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Alberta Field Plants											
Subtotal[b]	19578	21141	21159	19210	17488	15967	14648	13558	12585	8026	4633
Alberta Straddle Plants											
Cochrane (A.N.G.C.)*	223	235	270	314	315	316	314	310	311	342	400
Ellerslie (Amoco)*	182	183	185	187	188	190	192	194	196	206	216
Empress (3 plants)*	933	955	974	1010	1012	1016	1010	998	1001	1101	1286
Fort Saskatchewan (Midwest)*	17	17	17	17	17	17	17	17	17	17	17
Subtotal	1355	1390	1446	1528	1532	1539	1533	1519	1525	1666	1919
Alberta Total [a]	20933	22531	22605	20738	19020	17506	16181	15077	14110	9692	6552
British Columbia - Total [a]	882	1016	1075	948	849	782	727	666	607	296	178
Saskatchewan - Total [a]	114	125	111	95	81	70	60	52	45	15	5
Manitoba - Total	5	5	5	4	4	4	3	3	3	2	1
Field Plant Production From Unconnected Reserves and Reserves Additions	0	428	715	2795	4663	6332	7581	8472	9496	16022	22656
Canada - Total	21934	24105	24511	24580	24617	24694	24552	24270	24261	26027	29392

Note: [a] Includes field condensate.

[b] See current technology case for details.

[*] All or part of the production is entrained in an NGL mix.

Table A8-7

Propane Production from Refineries - Canada and Regions

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Atlantic	392	479	464	454	457	460	463	466	468	497	496
Quebec	685	713	721	730	735	739	744	749	753	825	825
Ontario	943	996	1031	1087	1122	1157	1192	1227	1262	1277	1303
Prairies	1196	1206	1306	1376	1383	1389	1397	1403	1410	1414	1414
British Columbia	324	266	220	140	140	139	139	139	139	137	137
Canada Total	3540	3660	3742	3787	3837	3884	3935	3984	4032	4150	4175

High Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Atlantic	392	479	464	454	457	460	463	466	468	497	496
Quebec	685	713	708	713	715	717	719	720	722	758	795
Ontario	943	996	1019	1062	1087	1112	1137	1162	1187	1276	1307
Prairies	1196	1206	1306	1374	1380	1386	1392	1398	1404	1416	1420
British Columbia	324	266	218	140	140	139	139	139	139	137	139
Canada Total	3540	3660	3715	3743	3779	3814	3850	3885	3920	4084	4157

Note: Supply is net of energy supply industry own use.

Table A8-8

Butanes Production from Refineries - Canada and Regions

(Cubic Metres per Day)

Current Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Atlantic	439	538	520	509	513	516	519	523	526	558	557
Quebec	296	299	302	306	308	310	312	314	316	346	346
Ontario	696	738	764	805	831	857	883	909	935	946	965
Prairies	1029	1120	1213	1278	1285	1290	1297	1302	1309	1313	1313
British Columbia	257	209	173	110	110	110	109	109	109	108	108
Canada Total	2717	2904	2972	3008	3047	3083	3120	3157	3195	3271	3289
High Technology Case											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2005	2010
Atlantic	439	538	520	509	513	516	519	523	526	558	557
Quebec	296	296	297	299	300	301	301	302	303	318	333
Ontario	696	734	755	787	805	824	842	861	879	945	968
Prairies	1029	1120	1213	1276	1281	1287	1293	1299	1304	1315	1315
British Columbia	257	209	172	110	110	110	109	109	109	108	109
Canada Total	2717	2897	2957	2981	3009	3038	3064	3094	3121	3244	3282

Note: Supply is net of energy supply industry own use.

Table A8-9

Ethane Supply and Demand - Canada

(Thousands of Cubic Metres per Day)

Current Technology Case									
	1993	1994	1995	1996	1997	1998	1999	2000	2001
Supply									
Total	31.6	33.9	36.6	37.6	38.9	39.8	40.3	41.2	41.7
Domestic Demand									
End Use	15.3	17.2	19.3	20.3	21.0	22.0	25.0	25.7	26.5
Current Miscible Flood Requirements	8.6	6.9	4.7	4.3	2.4	2.1	1.7	1.3	0.7
Future Miscible Flood Requirements	0.0	0.3	0.8	1.5	2.3	3.0	3.4	3.7	3.8
Total	23.9	24.4	24.8	26.1	25.7	27.1	30.1	30.7	31.0
Potential Exports	7.7	9.5	11.8	11.5	13.2	12.7	10.2	10.5	10.7
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Supply									
Total	42.1	42.5	42.8	43.2	43.6	41.0	40.4	40.2	39.4
Domestic Demand									
End Use	27.3	28.1	29.0	29.9	30.9	31.8	32.8	33.8	34.8
Current Miscible Flood Requirements	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Future Miscible Flood Requirements	3.8	3.8	3.8	3.7	3.7	3.6	3.4	3.2	2.8
Total	31.5	32.0	33.0	33.8	34.7	35.5	36.3	37.1	37.7
Potential Exports	10.6	10.5	9.8	9.4	8.9	5.5	4.1	3.1	1.7
High Technology Case									
	1993	1994	1995	1996	1997	1998	1999	2000	2001
Supply									
Total	31.6	33.4	35.0	35.1	35.3	35.1	34.7	34.8	35.0
Domestic Demand									
End Use	15.3	17.2	17.6	19.2	20.4	21.9	25.4	26.6	27.5
Current Miscible Flood Requirements	8.6	6.9	4.7	4.3	2.4	2.1	1.7	1.3	0.7
Future Miscible Flood Requirements	0.0	0.4	1.1	2.0	3.0	4.0	4.6	4.9	5.0
Total	23.9	24.5	23.4	25.5	25.8	28.0	31.7	32.8	33.2
Potential Exports	7.7	8.9	11.6	9.6	9.5	7.1	3.0	2.0	1.8
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Supply									
Total	35.4	35.8	36.8	38.0	38.6	40.1	41.4	42.7	43.9
Domestic Demand									
End Use	28.4	29.4	30.3	31.4	32.3	33.2	34.2	35.2	36.3
Current Miscible Flood Requirements	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Future Miscible Flood Requirements	5.1	5.1	5.0	5.0	4.9	4.7	4.6	4.2	3.7
Total	33.9	34.6	35.5	36.6	37.3	38.0	38.9	39.5	40.1
Potential Exports	1.5	1.2	1.3	1.4	1.3	2.1	2.5	3.2	3.8

Table A8-10

Propane Supply and Demand - Canada

(Thousands of Cubic Metres per Day)

Current Technology Case									
	1993	1994	1995	1996	1997	1998	1999	2000	2001
Supply									
Total	29.2	30.4	31.8	32.6	33.6	34.2	34.7	35.3	35.7
Domestic Demand									
End Use	12.1	12.4	12.6	12.8	13.1	13.3	13.6	13.8	14.0
Current Miscible Flood Requirements	2.0	1.9	1.2	1.1	0.8	0.7	0.7	0.6	0.3
Future Miscible Flood Requirements	0.0	0.1	0.3	0.7	1.2	1.7	2.3	2.7	3.1
Total	14.1	14.4	14.1	14.6	15.1	15.7	16.6	17.1	17.4
Potential Exports	15.1	16.0	17.7	18.0	18.5	18.5	18.1	18.2	18.3
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Supply									
Total	36.0	36.3	36.4	36.8	37.1	35.8	34.7	33.5	32.0
Domestic Demand									
End Use	14.3	14.5	14.8	15.0	15.2	15.5	15.8	16.0	16.3
Current Miscible Flood Requirements	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Future Miscible Flood Requirements	3.5	3.9	4.3	4.8	5.2	5.8	6.3	6.6	6.7
Total	17.9	18.6	19.4	20.1	20.6	21.5	22.3	22.8	23.2
Potential Exports	18.1	17.7	17.0	16.7	16.5	14.3	12.4	10.7	8.8
High Technology Case									
	1993	1994	1995	1996	1997	1998	1999	2000	2001
Supply									
Total	29.2	29.9	30.6	30.8	30.9	30.8	30.6	30.6	30.9
Domestic Demand									
End Use	12.1	12.4	12.4	12.7	13.0	13.4	13.7	14.0	14.3
Current Miscible Flood Requirements	2.0	1.9	1.2	1.1	0.8	0.7	0.7	0.6	0.3
Future Miscible Flood Requirements	0.0	0.1	0.4	0.9	1.6	2.3	3.0	3.6	4.1
Total	14.1	14.4	14.0	14.7	15.4	16.4	17.4	18.2	18.7
Potential Exports	15.1	15.5	16.6	16.1	15.5	14.4	13.2	12.4	12.2
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Supply									
Total	31.1	31.4	32.2	33.0	33.3	34.4	35.3	36.2	37.1
Domestic Demand									
End Use	14.6	14.8	15.1	15.4	15.7	15.9	16.2	16.5	16.8
Current Miscible Flood Requirements	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Future Miscible Flood Requirements	4.6	5.2	5.7	6.4	7.0	7.7	8.4	8.8	8.9
Total	19.3	20.2	21.1	22.1	22.9	23.8	24.8	25.5	25.9
Potential Exports	11.8	11.2	11.1	10.9	10.4	10.6	10.5	10.7	11.2

Table A8-11

Butanes Supply and Demand - Canada

(Thousands of Cubic Metres per Day)

Current Technology Case									
	1993	1994	1995	1996	1997	1998	1999	2000	2001
Supply									
Total	15.9	16.5	17.1	17.5	18.0	18.3	18.6	18.8	19.0
Domestic Demand									
End Use	3.5	3.5	4.4	5.0	5.2	5.5	5.7	5.9	6.0
Refinery Requirements	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.6
Current Miscible Flood Requirements	1.0	0.9	0.5	0.4	0.3	0.3	0.3	0.3	0.2
Future Miscible Flood Requirements	0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.9
Total	9.4	9.4	10.1	10.8	11.1	11.6	12.1	12.5	12.7
Potential Exports	6.5	7.1	7.0	6.7	6.9	6.7	6.5	6.3	6.3
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Supply									
Total	19.1	19.2	19.4	19.5	19.6	19.1	18.5	17.9	17.2
Domestic Demand									
End Use	6.2	6.3	6.4	6.6	6.7	6.8	7.0	7.1	7.3
Refinery Requirements	5.7	5.7	5.8	5.9	5.9	6.0	6.0	6.1	6.1
Current Miscible Flood Requirements	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Future Miscible Flood Requirements	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7
Total	13.0	13.2	13.6	14.0	14.1	14.4	14.7	15.0	15.2
Potential Exports	6.1	6.0	5.8	5.5	5.5	4.7	3.8	2.9	2.0
High Technology Case									
	1993	1994	1995	1996	1997	1998	1999	2000	2001
Supply									
Total	15.9	16.3	16.5	16.6	16.6	16.6	16.5	16.5	16.5
Domestic Demand									
End Use	3.5	3.5	4.4	5.1	5.3	5.6	5.9	6.2	6.3
Refinery Requirements	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.6
Current Miscible Flood Requirements	1.0	0.9	0.5	0.4	0.3	0.3	0.3	0.3	0.2
Future Miscible Flood Requirements	0.0	0.1	0.1	0.3	0.5	0.7	0.9	1.0	1.2
Total	9.4	9.5	10.1	11.0	11.3	11.9	12.5	13.0	13.3
Potential Exports	6.5	6.8	6.4	5.6	5.3	4.7	4.0	3.5	3.2
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Supply									
Total	16.8	16.9	17.2	17.6	17.8	18.3	18.8	19.2	19.5
Domestic Demand									
End Use	6.4	6.6	6.7	6.9	7.0	7.2	7.3	7.4	7.6
Refinery Requirements	5.7	5.7	5.8	5.9	5.9	6.0	6.0	6.1	6.1
Current Miscible Flood Requirements	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Future Miscible Flood Requirements	1.3	1.4	1.5	1.7	1.8	2.0	2.1	2.2	2.2
Total	13.5	13.8	14.2	14.7	14.8	15.3	15.5	15.8	16.0
Potential Exports	3.3	3.1	3.0	2.9	3.0	3.0	3.3	3.4	3.5

Appendix 9 - Coal

Table A9-1

Summarized Classification of Coal by Rank [a]

Class	Group	Volatile Matter[b] (percent)	Fixed Carbon[b] (percent)	Heat Content [c] (MJ/kg)
Anthracitic [d]	Meta-anthracite	<= 2	>=98	
	Anthracite	>2-8	92-<98	
	Semianthracite	>8-14	86-<92	
Bituminous [e]	Low Volatile Bituminous	>14-22	78-<86	
	Medium Volatile Bituminous	>22-31	69-<78	
	High Volatile A Bituminous	>31	<69	>=32.6
	High Volatile B Bituminous			30.2-<32.6
	High Volatile C Bituminous			26.7-<30.2
Subbituminous[f]	Subbituminous A			24.4-<26.7
	Subbituminous B			22.1-<24.4
	Subbituminous C			19.3-<22.1
Lignitic [g]	Lignite A			14.7-<19.3
	Lignite B			<14.7

Notes: [a] Lower rank coals are classified by heat content; higher ranks by volatile matter and fixed carbon.

[b] Dry, mineral-matter-free basis.

[c] Moist, mineral-matter-free basis.

[d] Non-agglomerating; if agglomerating is classified as low volatile bituminous.

[e] Commonly agglomerating.

[f] If agglomerating is classified as high volatile C bituminous.

[g] Non-agglomerating.

Source: Coal Resources and Reserves of Canada, EMR Report ER-79, December, 1979.

Table A9-2
Summary of Canada's Coal Resources

(Megatonnes)

Coal Region	Coal Rank[a]	Immediate Interest			Future Interest			
		Assurance[b,c]			Assurance			
		Measured	Indicated	Inferred	Measured	Indicated	Inferred	Speculative
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Coastal British Columbia								
-Vancouver Island	h - mvb	35	80	200	-	-	300	-
-Queen Charlotte Islands	lvb - an	-	-	10	-	-	-	-
	h - mvb	-	15	10	-	-	-	-
	lig - sub	-	-	50	-	-	-	500
Intermontane British Columbia								
-Northern District	lvb - an	100	500	1000	-	-	-	4000
	h - mvb	30	50	100	-	-	-	100
-Southern District	sub - hvb	40	120	340	-	-	-	-
	lig - sub	450	320	270	-	-	-	-
Rocky Mountains and Foothills								
-Front Ranges								
East Kootenays	h - mvb	1390	1320	4040	-	2700	-	-
Crowsnest	m - lvb	265	140	510	-	200	-	-
	h - mvb	330	170	630	-	-	-	-
Cascade	lvb - an	240	120	455	-	210	-	-
Panther River-Clearwater	lvb - an	-	-	-	15	15	700	-
-Inner Foothills								
Southern District	m - lvb	635	320	1145	-	245	-	-
	h - mvb	150	75	275	-	-	-	-
Northern District	m - lvb	1115	2385	6270	-	100	-	-
-Outer Foothills	sub - hvb	830	740	1955	-	200	-	-
Plains								
-Mannville Group	lig - sub	-	35	100	-	-	30	-
-Belly River/Edmonton/Wapiti	sub - hvb	1240	585	1860	-	820	-	-
	lig - sub	11860	4935	16575	-	14115	-	-
-Paskapoo	sub - hvb	120	60	175	-	25	-	-
-Ravenscrag	lig - sub	1445	2680	3440	165	3910	23510	-
-Deep Coal	sub - hvb	-	-	-	1200	4000	50000	85000

Table A9-2 (continued)
Summary of Canada's Coal Resources

(Megatonnes)

Coal Region	Coal Rank[a]	Immediate Interest			Future Interest			
		Assurance[b,c]			Assurance			
		Measured	Indicated	Inferred	Measured	Indicated	Inferred	Speculative
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Hudson Bay Lowland								
-Onakawana	lig - sub	170	10	—	(No available estimates)			
Atlantic Provinces	h - mvb	345	365	770	-	1500	215	-
Northern Canada								
-Yukon/District of Mackenzie	lvb - an	-	-	90	(No available estimates of resources of future interest for this region)			
	h - mvb	-	-	150				
	sub - hvb	-	-	350				
	lig - sub	-	-	2290				
-Arctic Archipelago	sub - hvb	-	-	-	-	500	550	4500
	lig - sub	-	-	—	-	7000	7500	31000
Totals	lvb - an	340	620	1555	15	225	700	4000
	m - lvb	2015	2845	7925	-	545	-	-
	h - mvb	2280	2075	6175	-	4200	515	100
	sub - hvb	2230	1505	4680	1200	5545	50550	89500
	lig - sub	13925	7980	22725	165	25025	31040	31500
	All Ranks	20790	15025	43060	1380	35540	82805	125100

Notes: [a] an = anthracite; lvb = low volatile bituminous; mvb = medium volatile bituminous; hvb = high volatile bituminous; sub = subbituminous; lig = lignite.

[b] These coal resource estimates may differ from those of the respective provincial governments because of different resource estimating criteria and parameters used.

[c] Resources shown in this table include reserves.

Source: Coal Resources of Canada, Paper 89-4, Geological Survey of Canada, 1989.

Table A9-3
Coal Exports in 1992 by Destination

(Kilotonnes)

	Thermal	Metallurgical	Total
Japan	2260	13460	15720
South Korea	1254	3253	4507
Brazil	50	1089	1139
Denmark	1053	46	1099
United States	55	868	923
United Kingdom	90	681	771
Taiwan	0	522	522
Mexico	81	336	417
Spain	0	379	379
Netherlands	0	330	330
France	49	253	302
Italy	0	229	229
Chile	0	220	220
Germany	40	170	210
Portugal	88	113	201
Belgium	0	131	131
Iran	0	72	72
Sweden	0	65	65
Turkey	0	52	52
Egypt	0	46	46
Pakistan	0	44	44
Dominican Republic	24	0	24
Iceland	3	4	7
Total	5047	22363	27410

Source: Statistical Review of Coal in Canada: 1992, Energy, Mines and Resources, 1993.

Table A9-4

Historical Data - Coal Production, Imports and Exports - Canada

(Megatonnes)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Production										
Bituminous - Thermal	1.3	1.7	2.5	2.7	2.3	3.4	4.4	6.0	6.6	8.2
- Metallurgical	11.1	10.9	13.3	11.6	13.0	13.8	14.0	14.1	15.1	14.1
Subbituminous [a]	4.5	5.1	6.0	6.4	7.9	8.3	9.6	10.5	11.6	13.0
Lignite [a]	3.7	3.5	3.5	4.7	5.5	5.1	5.0	6.0	6.8	7.5
Total	20.5	21.1	25.3	25.5	28.7	30.5	33.0	36.7	40.1	42.8
Imports										
Anthracite	0.4	0.4	0.4	0.3	0.4	0.3	0.2	0.4	0.3	0.3
Bituminous - Thermal	7.7	5.2	8.9	7.3	9.0	8.5	10.3	9.1	9.2	11.0
- Metallurgical	7.0	6.8	6.5	7.0	6.1	5.4	7.0	6.4	5.4	4.5
Total	15.1	12.4	15.8	14.6	15.4	14.1	17.5	15.9	14.8	15.8
Exports										
Bituminous - Thermal	0.2	0.4	0.8	0.9	0.9	1.0	0.9	1.1	1.9	3.0
- Metallurgical	10.1	10.1	10.6	10.9	11.5	13.0	12.8	14.1	13.8	13.0
Total	10.3	10.5	11.4	11.9	12.4	14.0	13.7	15.3	15.7	16.0
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Production										
Bituminous - Thermal	7.4	10.7	9.9	9.8	10.0	10.4	10.7	10.0	10.8	10.4
- Metallurgical	15.1	21.4	24.3	22.4	22.6	28.2	28.1	27.7	29.1	21.8
Subbituminous	14.5	15.4	16.9	17.3	18.5	19.9	20.9	21.3	22.2	23.0
Lignite	7.8	9.9	9.7	8.3	10.0	12.1	10.8	9.4	9.0	10.0
Total	44.8	57.4	60.7	57.8	61.2	70.6	70.5	68.4	71.1	65.3
Imports										
Anthracite	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.3	0.2	0.3
Bituminous - Thermal	8.2	11.5	8.3	6.9	8.5	10.5	8.4	9.4	7.4	7.7
- Metallurgical	6.2	6.6	6.4	5.8	5.8	6.3	5.8	4.5	4.7	4.9
Total	14.7	18.4	14.9	13.1	14.7	17.2	14.7	14.2	12.4	12.8
Exports										
Bituminous - Thermal	2.5	4.1	4.9	4.5	4.3	4.2	4.2	4.1	5.3	5.0
- Metallurgical	14.5	21.1	22.5	21.5	22.4	27.6	28.6	26.9	28.8	22.4
Total	17.0	25.1	27.4	25.9	26.7	31.8	32.7	31.0	34.1	27.4

Notes: [a] All subbituminous and lignite production is used for thermal purposes.

Source: Statistical Review of Coal in Canada, Energy, Mines and Resources.

Table A9-5
Coal Supply and Demand - Canada

(Megatonnes)

		Current Technology						
		1992	1993	1994	1995	2000	2005	2010
Domestic Demand	Thermal	44.6	43.0	42.3	44.4	49.1	59.2	71.2
	Metallurgical	4.9	5.4	6.1	6.3	6.6	7.0	7.2
	Oil Recovery	0.0	0.0	0.0	0.0	0.0	0.0	4.7
	Other	1.6	1.6	1.7	1.7	1.9	3.3	2.2
	Total	51.0	50.0	50.1	52.4	57.5	69.6	85.2
Exports	Thermal	5.0	4.3	4.5	4.7	5.7	6.9	8.4
	Metallurgical	22.4	23.9	25.4	26.0	26.0	26.0	26.0
	Total	27.4	28.2	29.9	30.7	31.7	32.9	34.4
Imports	Thermal	8.0	4.3	4.8	5.3	8.4	13.8	18.5
	Metallurgical	4.8	5.4	6.1	6.3	6.6	7.0	7.2
	Total	12.8	9.7	10.9	11.5	15.0	20.8	25.6
Production	Thermal	43.5	44.6	43.7	45.5	48.2	55.7	67.9
	Metallurgical	21.8	23.9	25.4	26.0	26.0	26.0	26.0
	Total	65.3	68.5	69.1	71.5	74.2	81.7	93.9
		High Technology						
		1992	1993	1994	1995	2000	2005	2010
Domestic Demand	Thermal	44.6	43.0	42.3	44.3	49.2	56.3	62.0
	Metallurgical	4.9	5.4	6.1	6.3	6.6	7.0	7.2
	Oil Recovery	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other	1.6	1.6	1.7	1.7	1.9	3.3	2.2
	Total	51.0	50.0	50.1	52.3	57.7	66.6	71.3
Exports	Thermal	5.0	4.3	4.5	4.7	5.7	6.9	8.4
	Metallurgical	22.4	23.9	25.4	26.0	26.0	26.0	26.0
	Total	27.4	28.2	29.9	30.7	31.7	32.9	34.4
Imports	Thermal	8.0	4.3	4.8	5.2	8.5	14.0	14.6
	Metallurgical	4.8	5.4	6.1	6.3	6.6	7.0	7.2
	Total	12.8	9.7	10.9	11.5	15.0	21.0	21.7
Production	Thermal	43.5	44.6	43.7	45.5	48.3	52.5	58.0
	Metallurgical	21.8	23.9	25.4	26.0	26.0	26.0	26.0
	Total	65.3	68.5	69.1	71.5	74.3	78.5	84.0

Appendix 10 - Alternative and Renewable Energy

Table A10-1

Efficiency Adjusted End Use Conventional Energy Prices

(\$1993/GJ)

Energy Sector and Type			
	1992	Current Tech Case 2010	High Tech Case 2010
Residential			
Electricity	15 to 20	15 to 21	15 to 21
Light Fuel Oil	16 to 18	16 to 19	16 to 19
Natural Gas	6 to 12	10 to 17	7 to 13
Commercial			
Electricity	20 to 34	20 to 34	20 to 34
Light Fuel Oil	10 to 14	10 to 15	10 to 15
Natural Gas	4 to 10	8 to 14	5 to 11
Industrial			
Electricity	11 to 19	11 to 19	11 to 19
Coal	3 to 10	4 to 11	4 to 11
Heavy Fuel Oil	3 to 4	6 to 7	6 to 7
Natural Gas	2 to 5	6 to 10	4 to 7

Source: National Energy Board and Statistics Canada

Table A10-2
Alternative Energy Supply Costs

(\$1993/GJ)

Alternative Energy Source.	Applications	Supply Cost
WIND	Electricity Generation	14 to 28
ACTIVE SOLAR	Domestic Hot Water	20 to 33
	Pool Heating	14 to 25
	Industrial Air Heating & Ventilation	6 to 12
SMALL HYDRO	Electricity Generation	6 to over 36
BIOMASS	Wood (Rural) Heating	3 to 12
	Wood (Urban) Heating	12 to 42
	Industrial & Commercial Heating & Elect. Gen.	3 to 17
PHOTOVOLTAICS	Electricity Generation	150 to 460
GEOTHERMAL	Heating & Elect. Gen.	13 to 21
TIDAL	Electricity Generation	15 to over 44

Source: Department of Natural Resources Canada.

Note: The low end of the value ranges corresponds to the most favourable applications of the technology, ie. those renewable energy applications with the lowest capital costs, located both in resource-rich sites and close to the grid.

Appendix 11 - Atmospheric Emissions

Table A11-1

Carbon Dioxide and Methane Emission Factors¹

	CO ₂	CH ₄
COMBUSTION SOURCES		
Gaseous Fuels	(t/TJ)	(kg/TJ)
Natural Gas	49.68	(0.13 to 1.27)
Still Gas	49.68	-
Coke Oven Gas	86.00	-
Liquid Fuels	(t/TJ)	(kg/TJ)
Motor Gasoline	67.98	(6.92 to 121.11)
Kerosene	67.65	5.53
Aviation Gas	69.37	60.00
LPGs	(59.84 to 61.38)	1.18
Diesel Oil	70.69	(1.32 to 5.7)
Light Oil	73.11	(0.16 to 5.53)
Heavy Oil	74.00	(0.72 to 2.88)
Aviation Jet Fuel	70.84	2.00
Petroleum Coke	100.10	0.38
Solid Fuels	(t/TJ)	(kg/TJ)
Anthracite	86.20	varies
U.S. Bituminous	(81.6 to 85.9)	varies
Cdn. Bituminous	(94.3 to 83.0)	varies
Sub-bituminous	94.30	varies
Lignite	(93.8 to 95.0)	varies
Coke	86.00	-
Fuel Wood	81.47	(0.01 to 0.03)
Slash Burning	81.47	0.01
Incineration		
Municipal Solid Waste	85.85	0.02
Wood Waste	83.33	0.01
PROCESS SOURCES	(t/TJ)	(t/TJ)
Spent Pulping Liquor	107.38	-

¹From Canada's Greenhouse Gas Emissions: Estimates for 1990, A.P. Jaques, Environment Canada, Report EPS 5/AP/4, December 1992.

Table A11-2
Nitrogen Oxides (NO_x) Emission Factors

Tonnes/PJ				
	Residential	Commercial	Industrial	Transportation
Renewables (Excluding Wood)	113.00	113.00		
Natural Gas	42.30	42.30	59.20	
Propane - Transportation	42.70	42.70	59.90	
LPG's	42.70	42.70	59.90	
Gasoline				(1)
Kerosene	61.00	63.70	63.70	
Aviation Gasoline		223.00		223.00
Aviation Turbo		208.00		208.00
Light Fuel Oil	59.50	62.00	62.00	
Diesel	1030.00	1290.00	1080.00	(1)
Rail				1440.00
Marine				235.00
Heavy Fuel Oil	158.00	158.00	158.00	200.00
Petroleum Coke			241.00	
Non-Energy-Refined Petroleum Products			0.00	
Industry Own Use - Refined Petroleum Products			118.00	
Wood and Wood Waste	41.00		113.00	
Spent Pulping Liquor (Industry)			113.00	
Coal	250.00	250.00	250.00	
Coke and Coke Oven Gas			237.00	

Note: Factors derived by NEB in consultation with Natural Resources Canada and Environment Canada.
(1) For detailed gasoline and diesel transportation emissions factors, see Table A11-3.

Table A11-3
Transportation NO_x Emissions Factors

Grams per Mile

	Atlantic	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Territories
Light Duty Trucks - Mogas							
1990	2.41	2.40	2.39	2.51	2.53	2.48	2.33
1995	1.79	1.78	1.77	1.88	1.89	1.84	1.72
2000	1.49	1.48	1.48	1.57	1.58	1.53	1.43
2005	1.40	1.39	1.39	1.47	1.48	1.44	1.34
2010	1.40	1.39	1.39	1.47	1.48	1.44	1.34
Medium/Heavy Duty Trucks - Mogas							
1990	6.91	6.88	6.84	7.00	7.03	7.00	6.74
1995	5.79	5.76	5.72	5.85	5.88	5.88	5.64
2000	5.48	5.46	5.42	5.54	5.58	5.29	5.34
2005	5.41	5.38	5.34	5.46	5.50	5.50	5.26
2010	5.41	5.38	5.34	5.46	5.50	5.50	5.26
Cars - Mogas							
1990	1.88	1.88	2.03	2.41	2.50	2.35	2.33
1995	1.15	1.14	1.26	1.55	1.62	1.51	1.52
2000	0.96	0.95	1.01	1.17	1.20	1.14	1.12
2005	0.94	0.93	0.96	1.07	1.09	1.04	1.01
2010	0.94	0.93	0.96	1.07	1.09	1.04	1.01
Light Duty Trucks - DFO							
1990	1.68	1.68	1.68	1.68	1.68	1.68	1.68
1995	1.32	1.32	1.32	1.32	1.32	1.32	1.32
2000	1.31	1.31	1.31	1.31	1.31	1.31	1.31
2005	1.32	1.32	1.32	1.32	1.32	1.32	1.32
2010	1.32	1.32	1.32	1.32	1.32	1.32	1.32
Medium/Heavy Duty Trucks - DFO							
1990	20.13	20.13	20.13	20.13	20.13	20.13	20.13
1995	11.74	11.74	11.74	11.74	11.74	11.74	11.74
2000	9.48	9.48	9.48	9.48	9.48	9.48	9.48
2005	8.93	8.93	8.93	8.93	8.93	8.93	8.93
2010	8.93	8.93	8.93	8.93	8.93	8.93	8.93
Cars - DFO							
1990	1.43	1.43	1.43	1.43	1.43	1.43	1.43
1995	1.14	1.14	1.14	1.14	1.14	1.14	1.14
2000	1.15	1.15	1.15	1.15	1.15	1.15	1.15
2005	1.18	1.18	1.18	1.18	1.18	1.18	1.18
2010	1.18	1.18	1.18	1.18	1.18	1.18	1.18

Note: Factors derived with assistance of Environment Canada, based on NEB projections of car and truck vintage and stock.

Table A11-4
Volatile Organic Compounds (VOC) Emission Factors

Tonnes/PJ	Residential	Commercial	Industrial	Transportation
Renewables (Excluding Wood)	56.70	56.70		
Natural Gas	2.22	2.22	1.16	
Propane - Transportation	2.22	2.22	1.11	
LPG's	2.22	2.22	1.11	
Gasoline				(1)
Kerosene	2.26	1.06	0.64	
Aviation Gasoline				67.70
Aviation Turbo				63.20
Light Fuel Oil	2.20	1.04	0.62	
Diesel	179.00	100.00	88.20	(1)
Rail				69.80
Marine				392.00
Heavy Fuel Oil	3.35	3.35	2.88	363.00
Petroleum Coke			1.51	
Non-Energy-Refined Petroleum Products			0.00	
Industry Own Use - Refined Petroleum Products			1.24	
Wood and Wood Waste	1169.00		56.70	
Spent Pulping Liquor (Industry)			56.70	
Coal	180.00	180.00	1.45	
Coke and Coke Oven Gas			1.38	

Note: Factors derived by NEB in consultation with Natural Resources Canada and Environment Canada.

(1) For detailed gasoline and diesel transportation emissions factors, see Table A11-5.

Table A11-5
Transportation VOC Emissions Factors

Grams per Mile

	Atlantic	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Territories
Light Duty Trucks - Mogas							
1990	3.28	3.30	3.46	3.85	3.91	3.41	3.52
1995	2.37	2.37	2.51	2.80	2.85	2.45	2.54
2000	1.91	1.91	2.03	2.26	2.30	1.96	2.04
2005	1.80	1.79	1.92	2.12	2.15	1.84	1.92
2010	1.80	1.79	1.92	2.12	2.15	1.84	1.92
Medium/Heavy Duty Trucks - Mogas							
1990	4.60	4.66	5.09	5.09	5.12	4.58	5.99
1995	3.54	3.56	3.92	3.95	3.97	3.50	4.55
2000	3.26	3.29	3.60	3.65	3.67	3.22	4.15
2005	3.15	3.15	3.48	3.53	3.55	3.11	3.98
2010	3.15	3.15	3.48	3.53	3.55	3.11	3.98
Cars - Mogas							
1990	2.34	2.36	2.78	3.52	3.66	2.95	3.24
1995	1.62	1.61	1.99	2.53	2.65	2.08	2.42
2000	1.39	1.37	1.66	1.95	2.01	1.60	1.97
2005	1.35	1.33	1.59	1.78	1.83	1.47	1.84
2010	1.35	1.33	1.59	1.78	1.83	1.47	1.84
Light Duty Trucks - DFO							
1990	0.54	0.54	0.54	0.54	0.54	0.54	0.54
1995	0.45	0.45	0.45	0.45	0.45	0.45	0.45
2000	0.48	0.48	0.48	0.48	0.48	0.48	0.48
2005	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2010	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Medium/Heavy Duty Trucks - DFO							
1990	1.90	1.90	1.90	1.90	1.90	1.90	1.90
1995	1.63	1.63	1.63	1.63	1.63	1.63	1.63
2000	1.55	1.55	1.55	1.55	1.55	1.55	1.55
2005	1.54	1.54	1.54	1.54	1.54	1.54	1.54
2010	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Cars - DFO							
1990	0.29	0.29	0.29	0.29	0.29	0.29	0.29
1995	0.29	0.29	0.29	0.29	0.29	0.29	0.29
2000	0.29	0.29	0.29	0.29	0.29	0.29	0.29
2005	0.29	0.29	0.29	0.29	0.29	0.29	0.29
2010	0.29	0.29	0.29	0.29	0.29	0.29	0.29

Note: Factors derived with assistance of Environment Canada, based on NEB projections of car and truck vintage and stock.

Table A 11-6
Carbon Dioxide Emissions - Current Tech Case

	(kt)										
	Residential	Commercial	Industrial	Transportation	Own Use	Oil Sands	Upstream	Electric Power	Reservoir	Gross Emissions	Net Emissions
1992	48320	27892	81890	126026	34050	12470	23401	97132	7060	505496	458241
1993	48176	28032	84600	131230	34892	13180	24657	86110	7437	506815	458314
1994	48135	28173	87680	133637	35624	14130	25377	87992	7832	518300	468579
1995	47920	28513	91945	136798	36685	15000	26031	94910	8067	537265	485870
1996	47828	28978	95272	139368	37275	15880	26637	100343	8271	552450	499852
1997	47802	29315	98250	142002	38321	16590	28214	102323	8873	565408	511690
1998	47819	29546	100324	144477	39273	17060	30754	110248	9668	583771	529168
1999	47818	29605	101720	146774	40211	17620	32331	110605	10404	592181	537088
2000	47806	29604	103261	149044	41084	18760	33992	112737	10972	602593	547260
2001	47804	29792	104976	151515	41954	20140	35611	118971	11762	618411	562526
2002	47772	30080	107280	154178	42766	20250	36353	122909	11929	630250	573516
2003	47709	30367	109205	156807	43633	20320	36927	127653	12300	642426	584920
2004	47638	30589	110612	158876	44471	18760	37486	135928	12464	654903	596824
2005	47628	30770	112006	160858	45240	19010	38104	138572	12838	663727	605027
2006	47612	30848	113926	162958	46087	18890	38509	146596	12981	677772	618407
2007	47653	31021	116646	165048	46045	18670	37762	146340	12696	681893	621880
2008	47691	31239	119101	167076	46318	19770	37087	151599	12574	693135	632455
2009	47729	31458	121264	168667	46537	20023	37712	153321	12324	700263	639036
2010	47764	31662	123051	171137	46761	20277	37454	162173	12165	714239	652443

Table A 11-7

Methane Emissions - Current Tech Case

(kt)

	Upstream Oil and Gas	Distribution System	Western Coal Bed	Eastern Coal Bed	Total Emissions
1992	1285	20	66	102	1473
1993	1346	21	69	88	1523
1994	1444	21	70	84	1619
1995	1539	22	72	81	1714
1996	1577	22	73	87	1760
1997	1625	24	73	89	1811
1998	1686	26	74	97	1883
1999	1706	27	74	95	1902
2000	1721	29	74	105	1929
2001	1721	30	77	102	1930
2002	1711	31	77	107	1926
2003	1687	32	77	115	1910
2004	1674	32	79	104	1888
2005	1659	33	80	114	1886
2006	1647	33	81	114	1874
2007	1604	32	81	140	1857
2008	1559	32	84	138	1813
2009	1544	31	85	145	1806
2010	1491	30	89	178	1788

Table A 11-8

SO₂ Emissions - Current Tech Case

(kt)

	Upstream Oil and Gas	Electric Power	Total Emissions
1992	514	728	1242
1993	544	635	1179
1994	548	543	1091
1995	559	499	1059
1996	561	512	1073
1997	481	523	1004
1998	479	563	1042
1999	471	565	1036
2000	469	560	1029
2001	460	569	1028
2002	456	573	1029
2003	458	587	1045
2004	455	599	1054
2005	456	560	1016
2006	481	578	1058
2007	487	549	1035
2008	486	545	1031
2009	481	526	1008
2010	470	548	1018

Table A 11-9
NO_x Emissions - Current Tech Case

(kt)	Residential	Commercial	Industrial	Transportation	Own Use	Upstream Oil and Gas	Electric Power	Total Emissions
1992	112	53	271	877	74	234	230	1851
1993	112	53	280	900	77	245	207	1874
1994	112	54	289	906	80	252	206	1899
1995	112	55	302	916	83	258	223	1949
1996	112	56	312	883	85	264	230	1942
1997	112	57	321	848	88	273	236	1935
1998	113	57	328	809	90	288	253	1938
1999	113	58	332	768	92	297	255	1915
2000	113	58	335	724	93	306	260	1889
2001	114	59	341	718	95	314	269	1910
2002	114	59	348	711	97	318	280	1927
2003	114	60	354	704	99	320	290	1941
2004	114	61	358	694	101	320	302	1950
2005	114	61	363	683	102	322	302	1947
2006	115	62	369	688	104	323	318	1979
2007	115	62	378	693	106	321	318	1993
2008	115	63	386	698	107	319	325	2013
2009	115	64	393	701	107	321	324	2025
2010	116	64	400	706	107	318	336	2047

Table A 11-10
VOC Emissions - Current Tech Case

(kt)	Residential	Commercial	Industrial	Transportation	Own Use	Upstream Oil and Gas	Electric Power	Total Emissions
1992	123	5	32	667	1	606	3	1436
1993	123	5	33	682	1	623	2	1470
1994	123	5	34	683	1	652	2	1500
1995	123	6	35	691	1	686	3	1545
1996	123	6	36	672	1	689	3	1529
1997	123	6	37	652	1	686	3	1508
1998	123	6	38	629	1	684	3	1485
1999	123	6	38	603	1	674	3	1448
2000	123	6	38	576	1	662	3	1409
2001	123	6	39	570	1	644	3	1386
2002	123	6	40	564	1	626	4	1364
2003	123	6	40	556	1	604	4	1334
2004	124	6	41	545	1	587	4	1308
2005	124	6	41	534	1	571	4	1281
2006	124	6	41	537	1	554	4	1267
2007	125	6	42	540	1	532	4	1250
2008	125	7	42	542	1	509	4	1230
2009	125	7	43	543	1	493	4	1216
2010	126	7	43	547	1	471	5	1199

Table A 11-11

Annual Emissions - High Tech Case

(kt)						
	Gross CO ₂	Net CO ₂	CH ₄	SO ₂	NO _x	VOC
1992	505496	458241	1473	1242	1851	1436
1993	504964	456463	1494	1161	1870	1464
1994	514894	465112	1586	1069	1892	1497
1995	533055	481485	1671	1029	1941	1545
1996	548914	495982	1723	1040	1935	1536
1997	562165	507941	1765	969	1925	1518
1998	580998	525710	1825	1004	1925	1495
1999	589554	533595	1830	995	1897	1458
2000	601277	544894	1844	991	1874	1421
2001	620165	563038	1864	987	1902	1404
2002	634931	576764	1879	996	1920	1388
2003	647468	588340	1873	1015	1935	1362
2004	662228	602344	1894	1023	1949	1341
2005	671779	611097	1879	980	1949	1316
2006	688522	627007	1909	1031	1981	1313
2007	699644	637300	1936	1030	2003	1309
2008	712188	648979	1962	1037	2030	1302
2009	720383	656422	2000	1017	2041	1295
2010	735476	670732	2045	1039	2066	1296

Table A 11-12

Annual Emissions - Enhanced Cooperation Case

(kt)					
	Gross CO ₂	Net CO ₂	CH ₄	SO ₂	NO _x
1992	505496	458241	1473	1242	1852
1993	506815	458314	1522	1179	1874
1994	518300	468579	1619	1091	1899
1995	537272	485877	1712	1059	1949
1996	552466	499868	1760	1073	1942
1997	565424	511706	1811	1004	1936
1998	583308	528705	1883	1042	1938
1999	592416	537323	1902	1034	1915
2000	603584	548251	1923	1030	1891
2001	619230	563345	1933	1027	1912
2002	630910	574176	1923	1028	1928
2003	642685	585179	1902	1042	1941
2004	656204	598125	1900	1052	1952
2005	658641	599941	1869	961	1930
2006	669335	609970	1866	1010	1961
2007	665568	605555	1806	989	1958
2008	672814	612134	1762	977	1972
2009	683009	621782	1760	960	1989
2010	698679	636883	1727	978	2012

Appendix 12 - Sources and Uses of Energy

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1980 - History								
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use	Gas		Coke Gas							
Residential	459	22	3	338	498	0	78	0	0	1397
Commercial	301	15	1	257	203	1	0	0	0	779
Petrochemical	94	43	0	0	138	0	0	0	0	275
Industrial	714	24	248	504	509	42	358	0	0	2400
Transportation	0	2	0	2	1958	0	0	0	0	1962
Road	0	2	0	2	1541	0	0	0	0	1545
Rail	0	0	0	0	94	0	0	0	0	94
Air	0	0	0	0	172	0	0	0	0	172
Marine	0	0	0	0	151	0	0	0	0	151
Non-Energy Use	0	0	0	0	250	0	0	0	0	250
Total End Use	1568	105	253	1101	3555	43	436	0	0	7061
Own Use and Losses [d]	134	15	0	115	268	0	0	0	0	532
Conversions for Domestic Use [e]										
Electricity Generation	25	0	164	-1216	30	0	25	845	126	0
Refinery Propane Production	0	-35	0	0	35	0	0	0	0	0
Refinery Butanes Production	0	-24	0	0	24	0	0	0	0	0
Butane used in Refineries	0	38	0	0	-38	0	0	0	0	0
Steam Production	0	0	10	0	12	-43	0	0	21	0
NGL Production from Reprocessing	99	-99	0	0	0	0	0	0	0	0
Total Conversions	125	-120	174	-1216	64	-43	25	845	147	0
Conversion Losses-Domestic										
Electricity Generation	59	0	383	0	74	0	0	0	308	824
Coke Production	0	0	13	0	0	0	0	0	0	13
Steam Production	0	0	0	0	0	0	0	0	1	2
Total Conversion Losses	59	0	396	0	74	0	0	0	308	838
Domestic Demand for Primary Energy	1886	0	823	0	3961	0	461	845	455	8431
Export Demand										
Total Energy Exports	863	222	450	109	742	0	0	0	0	2386
Conversions for Export [e]										
Electricity	0	0	39	-109	11	0	0	59	0	0
NGL Production Reprocessing	56	-56	0	0	0	0	0	0	0	0
Total Conversions	56	-56	39	-109	11	0	0	59	0	0
Conversion Losses-Export										
Electricity Generation	0	0	66	0	16	0	0	0	0	82
Export Demand for Primary Energy [f]	919	166	555	0	770	0	0	59	0	2469
Total Primary Demand [g]	2805	166	1378	0	4731	0	461	904	455	10900
Primary Domestic Production	2764	161	891	0	3444	0	461	904	455	9080
Primary Energy Imports [g]	0	0	476	0	1344	0	0	0	0	1820
Total Primary Supply [h]	2764	161	1367	0	4788	0	461	904	455	10900

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1991 - History								
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use										
Residential	555	14	2	495	246	0	105	0	0	1418
Commercial	403	17	0	397	86	0	0	0	0	903
Petrochemical	156	154	0	0	125	0	0	0	0	435
Industrial	898	28	193	674	284	25	405	0	0	2506
Transportation	3	29	0	3	1791	0	0	0	0	1825
Road	3	29	0	3	1431	0	0	0	0	1465
Rail	0	0	0	0	83	0	0	0	0	83
Air	0	0	0	0	165	0	0	0	0	165
Marine	0	0	0	0	112	0	0	0	0	112
Non-Energy Use	0	0	0	0	214	0	0	0	0	214
Total End Use	2015	243	195	1569	2745	25	509	0	0	7301
Own Use and Losses [d]	208	3	5	140	230	0	0	0	0	586
Conversions for Domestic Use [e]										
Electricity Generation	34	0	280	-1687	40	0	11	1042	279	0
Refinery Propane Production	0	-34	0	0	34	0	0	0	0	0
Refinery Butanes Production	0	-23	0	0	23	0	0	0	0	0
Butane used in Refineries	0	51	0	0	-51	0	0	0	0	0
Steam Production	2	0	0	0	3	-25	0	0	20	0
NGL Production from Reprocessing	231	-231	0	0	0	0	0	0	0	0
Total Conversions	267	-237	280	-1687	49	-25	11	1042	299	0
Conversion Losses-Domestic										
Electricity Generation	38	0	590	0	79	0	18	0	659	1383
Coke Production	0	0	10	0	0	0	0	0	0	10
Steam Production	0	0	0	0	0	0	0	0	1	1
Total Conversion Losses	38	0	599	0	79	0	18	0	659	1393
Domestic Demand for Primary Energy	2528	9	1080	22	3102	0	538	1042	958	9280
Export Demand										
Total Energy Exports	1809	181	941	88	2310	0	0	0	0	5330
Conversions for Export [e]										
Electricity	1	0	15	-88	4	0	0	58	10	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	1	0	15	-88	4	0	0	58	10	0
Conversion Losses-Export										
Electricity Generation	3	0	29	0	7	0	1	0	23	63
Export Demand for Primary Energy [f]	1814	181	985	0	2322	0	1	58	32	5392
Total Primary Demand [g]	4342	190	2065	22	5424	0	539	1100	990	14673
Primary Domestic Production	4043	190	1709	0	3774	0	539	1100	990	12345
Primary Energy Imports [g]	21	0	357	22	1535	0	0	0	0	1935
Total Primary Supply [h]	4064	190	2065	22	5309	0	539	1100	990	14280

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1992 - Estimate								
Domestic Demand	Natural	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use	Gas		Coke Gas							
Residential	578	21	2	506	251	0	95	0	0	1454
Commercial	416	14	0	402	88	0	0	0	0	921
Petrochemical	154	161	0	0	130	0	0	0	0	444
Industrial	897	24	185	682	259	17	395	0	0	2459
Transportation	2	29	0	3	1797	0	0	0	0	1832
Road	2	29	0	3	1454	0	0	0	0	1489
Rail	0	0	0	0	87	0	0	0	0	87
Air	0	0	0	0	141	0	0	0	0	141
Marine	0	0	0	0	115	0	0	0	0	115
Non-Energy Use	0	0	0	0	211	0	0	0	0	211
Total End Use	2048	249	187	1593	2737	17	489	0	0	7320
Own Use and Losses [d]	221	3	10	123	230	0	0	0	0	588
Conversions for Domestic Use [e]										
Electricity Generation	41	0	281	-1692	46	0	12	1045	267	0
Refinery Propane Production	0	-33	0	0	33	0	0	0	0	0
Refinery Butanes Production	0	-28	0	0	28	0	0	0	0	0
Butane used in Refineries	0	50	0	0	-50	0	0	0	0	0
Steam Production	1	0	0	0	2	-17	0	0	14	0
NGL Production from Reprocessing	231	-231	0	0	0	0	0	0	0	0
Total Conversions	273	-242	281	-1692	59	-17	12	1045	281	0
Conversion Losses-Domestic										
Electricity Generation	54	0	583	0	88	0	13	0	642	1381
Coke Production	0	0	9	0	0	0	0	0	0	9
Steam Production	0	0	0	0	0	0	0	0	4	4
Total Conversion Losses	54	0	592	0	89	0	13	0	646	1394
Domestic Demand for Primary Energy	2597	10	1070	23	3114	0	515	1045	927	9302
Export Demand										
Total Energy Exports	2193	214	756	114	2447	0	0	0	0	5724
Conversions for Export [e]										
Electricity	7	0	18	-114	3	0	0	78	7	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	7	0	18	-114	3	0	0	78	7	0
Conversion Losses-Export										
Electricity Generation	16	0	35	0	4	0	1	0	16	72
Export Demand for Primary Energy [f]	2216	214	810	0	2454	0	1	78	23	5796
Total Primary Demand [g]	4813	224	1880	23	5569	0	516	1123	950	15097
Primary Domestic Production	4460	224	1509	0	3945	0	516	1123	950	12726
Primary Energy Imports [g]	92	0	371	23	1464	0	0	0	0	1951
Total Primary Supply [h]	4552	224	1880	23	5410	0	516	1123	950	14677

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1993 - Estimate								Total
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	
End Use			Coke Gas							
Residential	585	21	2	514	245	0	95	0	0	1462
Commercial	422	14	0	408	86	0	0	0	0	930
Petrochemical	158	163	0	0	128	0	0	0	0	449
Industrial	916	24	193	706	273	18	407	0	0	2537
Transportation	4	30	0	3	1870	0	0	0	0	1908
Road	4	30	0	3	1494	0	0	0	0	1532
Rail	0	0	0	0	90	0	0	0	0	90
Air	0	0	0	0	169	0	0	0	0	169
Marine	0	0	0	0	117	0	0	0	0	117
Non-Energy Use	0	0	0	0	214	0	0	0	0	214
Total End Use	2086	252	195	1631	2816	18	502	0	0	7500
Own Use and Losses [d]	229	4	10	110	235	0	0	0	0	588
Conversions for Domestic Use [e]										
Electricity Generation	50	0	244	-1714	37	0	13	1060	311	0
Refinery Propane Production	0	-34	0	0	34	0	0	0	0	0
Refinery Butanes Production	0	-30	0	0	30	0	0	0	0	0
Butane used in Refineries	0	51	0	0	-51	0	0	0	0	0
Steam Production	1	0	0	0	2	-18	0	0	15	0
NGL Production from Reprocessing	243	-243	0	0	0	0	0	0	0	0
Total Conversions	294	-256	244	-1714	52	-18	13	1060	325	0
Conversion Losses-Domestic										
Electricity Generation	60	0	511	0	69	0	14	0	756	1409
Coke Production	0	0	10	0	0	0	0	0	0	10
Steam Production	0	0	0	0	0	0	0	0	4	4
Total Conversion Losses	60	0	521	0	69	0	14	0	760	1423
Domestic Demand for Primary Energy	2669	0	970	27	3173	0	529	1060	1085	9512
Export Demand										
Total Energy Exports	2338	256	778	126	2605	0	0	0	0	6103
Conversions for Export [e]										
Electricity	4	0	22	-126	3	0	0	87	9	0
NGL Production Reprocessing	11	-11	0	0	0	0	0	0	0	0
Total Conversions	15	-11	22	-126	3	0	0	87	9	0
Conversion Losses-Export										
Electricity Generation	9	0	43	0	5	0	1	0	19	77
Export Demand for Primary Energy [f]	2363	245	843	0	2613	0	1	87	28	6180
Total Primary Demand [g]	5031	245	1813	27	5786	0	530	1147	1113	15692
Primary Domestic Production	4871	245	1532	0	4238	0	530	1147	1113	13675
Primary Energy Imports [g]	43	0	281	27	1597	0	0	0	0	1948
Total Primary Supply [h]	4914	245	1813	27	5835	0	530	1147	1113	15623

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)										
1994 - Current Tech										
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use										
Residential	590	21	2	520	241	0	95	0	0	1468
Commercial	427	14	0	415	84	0	0	0	0	941
Petrochemical	165	177	0	0	131	0	0	0	0	473
Industrial	937	25	203	732	289	18	419	0	0	2623
Transportation	5	31	0	4	1904	0	0	0	0	1943
Road	5	31	0	4	1511	0	0	0	0	1551
Rail	0	0	0	0	92	0	0	0	0	92
Air	0	0	0	0	182	0	0	0	0	182
Marine	0	0	0	0	118	0	0	0	0	118
Non-Energy Use	0	0	0	0	242	0	0	0	0	242
Total End Use	2124	268	205	1670	2891	18	514	0	0	7690
Own Use and Losses [d]	234	4	11	118	239	0	0	0	0	605
Conversions for Domestic Use [e]										
Electricity Generation	64	0	266	-1786	26	0	15	1087	327	0
Refinery Propane Production	0	-35	0	0	35	0	0	0	0	0
Refinery Butanes Production	0	-31	0	0	31	0	0	0	0	0
Butane used in Refineries	0	52	0	0	-52	0	0	0	0	0
Steam Production	1	0	0	0	2	-18	0	0	16	0
NGL Production from Reprocessing	258	-258	0	0	0	0	0	0	0	0
Total Conversions	323	-272	266	-1786	42	-18	15	1087	343	0
Conversion Losses-Domestic										
Electricity Generation	86	0	553	0	50	0	16	0	801	1506
Coke Production	0	0	10	0	0	0	0	0	0	10
Steam Production	0	0	0	0	0	0	0	0	4	5
Total Conversion Losses	86	0	564	0	51	0	16	0	805	1521
Domestic Demand for Primary Energy	2767	0	1045	2	3222	0	545	1087	1148	9816
Export Demand										
Total Energy Exports	2475	284	825	105	2859	0		0	0	6548
Conversions for Export [e]										
Electricity	3	0	6	-105	4	0	0	79	13	0
NGL Production Reprocessing	15	-15	0	0	0	0	0	0	0	0
Total Conversions	18	-15	6	-105	4	0	0	79	13	0
Conversion Losses-Export										
Electricity Generation	7	0	12	0	5	0	0	0	31	56
Export Demand for Primary Energy [f]	2500	269	843	0	2868	0	1	79	44	6604
Total Primary Demand [g]	5268	269	1888	2	6090	0	546	1166	1192	16420
Primary Domestic Production	5107	269	1572	0	4523	0	546	1166	1192	14375
Primary Energy Imports [g]	67	0	316	2	1567	0	0	0	0	1952
Total Primary Supply [h]	5174	269	1888	2	6090	0	546	1166	1192	16327

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1995 - Current Tech								Total
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	
End Use			Coke Gas							
Residential	595	21	2	528	235	0	95	0	0	1475
Commercial	435	15	0	424	84	0	0	0	0	957
Petrochemical	171	199	0	0	134	0	0	0	0	504
Industrial	963	26	214	770	314	19	436	0	0	2743
Transportation	6	31	0	4	1948	0	0	0	0	1989
Road	6	31	0	4	1544	0	0	0	0	1585
Rail	0	0	0	0	94	0	0	0	0	94
Air	0	0	0	0	191	0	0	0	0	191
Marine	0	0	0	0	119	0	0	0	0	119
Non-Energy Use	0	0	0	0	253	0	0	0	0	253
Total End Use	2169	292	216	1726	2968	20	531	0	0	7922
Own Use and Losses [d]	239	4	11	122	248	0	0	0	0	623
Conversions for Domestic Use [e]										
Electricity Generation	66	0	289	-1846	34	0	17	1112	328	0
Refinery Propane Production	0	-35	0	0	35	0	0	0	0	0
Refinery Butanes Production	0	-32	0	0	32	0	0	0	0	0
Butane used in Refineries	0	53	0	0	-53	0	0	0	0	0
Steam Production	1	0	0	0	2	-20	0	0	17	0
NGL Production from Reprocessing	282	-282	0	0	0	0	0	0	0	0
Total Conversions	349	-296	289	-1846	50	-20	17	1112	345	0
Conversion Losses-Domestic										
Electricity Generation	80	0	598	0	66	0	18	0	808	1569
Coke Production	0	0	11	0	0	0	0	0	0	11
Steam Production	0	0	0	0	0	0	0	0	4	5
Total Conversion Losses	81	0	609	0	66	0	18	0	812	1585
Domestic Demand for Primary Energy	2838	0	1124	2	3332	0	566	1112	1157	10131
Export Demand										
Total Energy Exports	2611	315	847	99	3107	0	0	0	0	6979
Conversions for Export [e]										
Electricity	2	0	5	-99	3	0	0	73	15	0
NGL Production Reprocessing	18	-18	0	0	0	0	0	0	0	0
Total Conversions	20	-18	5	-99	3	0	0	73	15	0
Conversion Losses-Export										
Electricity Generation	5	0	10	0	5	0	0	0	38	57
Export Demand for Primary Energy [f]	2636	297	861	0	3115	0	1	73	53	7036
Total Primary Demand [g]	5473	297	1986	2	6447	0	567	1185	1209	17167
Primary Domestic Production	5343	297	1649	0	4809	0	567	1185	1209	15060
Primary Energy Imports [g]	92	0	336	2	1638	0	0	0	0	2068
Total Primary Supply [h]	5435	297	1986	2	6447	0	567	1185	1209	17128

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)										
2000 - Current Tech										
Domestic Demand End Use	Natural Gas	NGL [a]	Coal, Coke Coke Gas	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
Residential	619	22	1	559	217	0	95	0	0	1513
Commercial	455	15	0	464	85	0	0	0	0	1019
Petrochemical	199	262	0	0	149	0	0	0	0	610
Industrial	1025	30	241	897	389	22	477	0	0	3081
Transportation	10	34	0	6	2120	0	0	0	0	2169
Road	10	34	0	6	1671	0	0	0	0	1720
Rail	0	0	0	0	100	0	0	0	0	100
Air	0	0	0	0	224	0	0	0	0	224
Marine	0	0	0	0	126	0	0	0	0	126
Non-Energy Use	0	0	0	0	237	0	0	0	0	237
Total End Use	2307	363	243	1926	3197	22	572	0	0	8629
Own Use and Losses [d]	274	5	12	135	271	0	0	0	0	697
Conversions for Domestic Use [e]										
Electricity Generation	113	0	328	-2052	44	0	24	1193	351	0
Refinery Propane Production	0	-38	0	0	38	0	0	0	0	0
Refinery Butanes Production	0	-33	0	0	33	0	0	0	0	0
Butane used in Refineries	0	57	0	0	-57	0	0	0	0	0
Steam Production	1	0	0	0	2	-22	0	0	19	0
NGL Production from Reprocessing	339	-339	0	0	0	0	0	0	0	0
Total Conversions	453	-353	328	-2052	60	-22	24	1193	370	0
Conversion Losses-Domestic										
Electricity Generation	142	0	677	0	87	0	27	0	862	1795
Coke Production	0	0	12	0	0	0	0	0	0	12
Steam Production	0	0	0	0	0	0	0	0	5	6
Total Conversion Losses	142	0	689	0	87	0	27	0	867	1813
Domestic Demand for Primary Energy	3176	14	1271	9	3615	0	623	1193	1237	11138
Export Demand										
Total Energy Exports	3206	302	875	85	3136	0	0	0	0	7604
Conversions for Export [e]										
Electricity	4	0	8	-85	3	0	0	58	13	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	4	0	8	-85	3	0	0	58	13	0
Conversion Losses-Export										
Electricity Generation	5	0	15	0	4	0	0	0	31	56
Export Demand for Primary Energy [f]	3215	302	898	0	3142	0	1	58	44	7660
Total Primary Demand [g]	6391	316	2170	9	6757	0	623	1250	1281	18798
Primary Domestic Production	6169	317	1735	0	5021	0	623	1250	1281	16397
Primary Energy Imports [g]	133	0	435	9	1736	0	0	0	0	2314
Total Primary Supply [h]	6302	317	2170	9	6757	0	623	1250	1281	18710

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		2005 - Current Tech								
Domestic Demand	Natural	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use	Gas		Coke Gas							
Residential	632	23	1	606	205	0	95	0	0	1563
Commercial	475	15	0	504	87	0	0	0	0	1081
Petrochemical	223	302	0	0	164	0	0	0	0	688
Industrial	1036	32	266	1003	468	24	511	0	0	3340
Transportation	14	37	0	7	2285	0	0	0	0	2343
Road	14	37	0	7	1794	0	0	0	0	1852
Rail	0	0	0	0	104	0	0	0	0	104
Air	0	0	0	0	249	0	0	0	0	249
Marine	0	0	0	0	138	0	0	0	0	138
Non-Energy Use	0	0	0	0	247	0	0	0	0	247
Total End Use	2379	409	267	2120	3456	24	607	0	0	9263
Own Use and Losses [d]	307	5	12	148	295	0	0	0	0	767
Conversions for Domestic Use [e]										
Electricity Generation	128	0	415	-2251	54	0	24	1273	358	0
Refinery Propane Production	0	-39	0	0	39	0	0	0	0	0
Refinery Butanes Production	0	-34	0	0	34	0	0	0	0	0
Butane used in Refineries	0	61	0	0	-61	0	0	0	0	0
Steam Production	1	0	0	0	2	-24	0	0	21	0
NGL Production from										
Reprocessing	357	-357	0	0	0	0	0	0	0	0
Total Conversions	486	-369	415	-2251	68	-24	24	1273	379	0
Conversion Losses-Domestic										
Electricity Generation	137	0	834	0	106	0	27	0	879	1982
Coke Production	0	0	14	0	0	0	0	0	0	14
Steam Production	0	0	0	0	1	0	0	0	5	6
Total Conversion Losses	137	0	847	0	106	0	27	0	884	2002
Domestic Demand for										
Primary Energy	3309	45	1541	17	3925	0	658	1273	1263	12031
Export Demand										
Total Energy Exports	3782	272	908	79	2691	0	0	0	0	7732
Conversions for Export [e]										
Electricity	5	0	14	-79	2	0	0	51	6	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	5	0	14	-79	2	0	0	51	6	0
Conversion Losses-Export										
Electricity Generation	7	0	27	0	3	0	0	0	15	53
Export Demand for										
Primary Energy [f]	3794	272	949	0	2697	0	1	51	22	7785
Total Primary Demand [g]	7103	317	2490	17	6622	0	659	1324	1284	19816
Primary Domestic Production	6739	317	1887	0	4600	0	659	1324	1284	16809
Primary Energy Imports [g]	282	0	603	17	2022	0	0	0	0	2924
Total Primary Supply [h]	7021	317	2490	17	6622	0	659	1324	1284	19734

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		2010 - Current Tech								
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use	Gas		Coke Gas							
Residential	654	24	1	659	191	0	97	0	0	1625
Commercial	491	16	0	549	88	0	0	0	0	1143
Petrochemical	248	348	0	0	180	0	0	0	0	775
Industrial	979	35	372	1095	522	26	543	0	0	3571
Transportation	18	39	0	9	2428	0	0	0	0	2494
Road	18	39	0	9	1896	0	0	0	0	1962
Rail	0	0	0	0	109	0	0	0	0	109
Air	0	0	0	0	274	0	0	0	0	274
Marine	0	0	0	0	149	0	0	0	0	149
Non-Energy Use	0	0	0	0	259	0	0	0	0	259
Total End Use	2390	462	373	2310	3667	26	640	0	0	9867
Own Use and Losses [d]	291	6	13	161	313	0	0	0	0	784
Conversions for Domestic Use [e]										
Electricity Generation	120	0	512	-2455	57	0	24	1395	348	0
Refinery Propane Production	0	-39	0	0	39	0	0	0	0	0
Refinery Butanes Production	0	-34	0	0	34	0	0	0	0	0
Butane used in Refineries	0	64	0	0	-64	0	0	0	0	0
Steam Production	1	0	0	0	2	-26	0	0	22	0
NGL Production from Reprocessing	319	-319	0	0	0	0	0	0	0	0
Total Conversions	440	-328	512	-2455	68	-26	24	1395	370	0
Conversion Losses-Domestic										
Electricity Generation	115	0	1004	0	115	0	27	0	855	2116
Coke Production	0	0	15	0	0	0	0	0	0	15
Steam Production	0	0	0	0	1	0	0	0	6	7
Total Conversion Losses	115	0	1019	0	115	0	27	0	860	2137
Domestic Demand for Primary Energy										
Primary Energy	3237	139	1916	17	4163	0	691	1395	1231	12788
Export Demand										
Total Energy Exports	3504	108	949	73	2407	0	0	0	0	7042
Conversions for Export [e]										
Electricity	4	0	16	-73	1	0	0	49	3	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	4	0	16	-73	1	0	0	49	3	0
Conversion Losses-Export										
Electricity Generation	5	0	31	0	0	0	0	0	7	45
Export Demand for Primary Energy [f]										
Primary Energy [f]	3513	108	997	0	2408	0	1	49	11	7086
Total Primary Demand [g]	6750	247	2913	17	6571	0	692	1443	1241	19874
Primary Domestic Production	6105	248	2168	0	4007	0	692	1443	1241	15903
Primary Energy Imports [g]	430	0	745	17	2564	0	0	0	0	3756
Total Primary Supply [h]	6535	248	2913	17	6571	0	692	1443	1241	19660

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1994 - High Tech								Total
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	
End Use			Coke Gas							
Residential	599	21	2	520	233	0	95	0	0	1470
Commercial	429	14	0	414	84	0	0	0	0	942
Petrochemical	165	177	0	0	131	0	0	0	0	473
Industrial	955	25	203	732	274	18	420	0	0	2628
Transportation	5	31	0	4	1904	0	0	0	0	1943
Road	5	31	0	4	1511	0	0	0	0	1551
Rail	0	0	0	0	92	0	0	0	0	92
Air	0	0	0	0	182	0	0	0	0	182
Marine	0	0	0	0	118	0	0	0	0	118
Non-Energy Use	0	0	0	0	242	0	0	0	0	242
Total End Use	2153	268	205	1670	2868	18	515	0	0	7697
Own Use and Losses [d]	228	4	11	118	237	0	0	0	0	597
Conversions for Domestic Use [e]										
Electricity Generation	64	0	266	-1786	26	0	15	1087	327	0
Refinery Propane Production	0	-35	0	0	35	0	0	0	0	0
Refinery Butanes Production	0	-31	0	0	31	0	0	0	0	0
Butane used in Refineries	0	52	0	0	-52	0	0	0	0	0
Steam Production	1	0	0	0	2	-18	0	0	16	0
NGL Production from Reprocessing	258	-258	0	0	0	0	0	0	0	0
Total Conversions	323	-272	266	-1786	42	-18	15	1087	343	0
Conversion Losses-Domestic										
Electricity Generation	82	0	553	0	50	0	16	0	801	1502
Coke Production	0	0	10	0	0	0	0	0	0	10
Steam Production	0	0	0	0	0	0	0	0	4	5
Total Conversion Losses	83	0	563	0	51	0	16	0	805	1518
Domestic Demand for Primary Energy	2786	0	1045	2	3197	0	546	1087	1148	9811
Export Demand										
Total Energy Exports	2369	272	825	105	2882	0	0	0	0	6454
Conversions for Export [e]										
Electricity	3	0	6	-105	4	0	0	79	13	0
NGL Production Reprocessing	10	-10	0	0	0	0	0	0	0	0
Total Conversions	13	-10	6	-105	4	0	0	79	13	0
Conversion Losses-Export										
Electricity Generation	7	0	12	0	5	0	0	0	31	56
Export Demand for Primary Energy [f]	2389	262	843	0	2891	0	1	79	44	6509
Total Primary Demand [g]	5175	262	1888	2	6088	0	546	1166	1192	16320
Primary Domestic Production	5002	262	1572	0	4535	0	546	1166	1192	14276
Primary Energy Imports [g]	67	0	316	2	1553	0	0	0	0	1938
Total Primary Supply [h]	5069	262	1888	2	6088	0	546	1166	1192	16214

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		1995 - High Tech								
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use			Coke Gas							
Residential	613	21	2	526	222	0	95	0	0	1480
Commercial	439	15	0	423	82	0	0	0	0	959
Petrochemical	171	199	0	0	134	0	0	0	0	504
Industrial	1003	26	215	770	286	20	438	0	0	2758
Transportation	6	31	0	4	1948	0	0	0	0	1989
Road	6	31	0	4	1544	0	0	0	0	1585
Rail	0	0	0	0	94	0	0	0	0	94
Air	0	0	0	0	191	0	0	0	0	191
Marine	0	0	0	0	119	0	0	0	0	119
Non-Energy Use	0	0	0	0	253	0	0	0	0	253
Total End Use	2232	292	217	1724	2925	20	533	0	0	7943
Own Use and Losses [d]	226	4	11	122	244	0	0	0	0	607
Conversions for Domestic Use [e]										
Electricity Generation	66	0	288	-1844	34	0	17	1112	327	0
Refinery Propane Production	0	-35	0	0	35	0	0	0	0	0
Refinery Butanes Production	0	-31	0	0	31	0	0	0	0	0
Butane used in Refineries	0	53	0	0	-53	0	0	0	0	0
Steam Production	1	0	0	0	2	-20	0	0	17	0
NGL Production from Reprocessing	283	-283	0	0	0	0	0	0	0	0
Total Conversions	350	-296	288	-1844	49	-20	17	1112	344	0
Conversion Losses-Domestic										
Electricity Generation	78	0	596	0	66	0	18	0	806	1563
Coke Production	0	0	11	0	0	0	0	0	0	11
Steam Production	0	0	0	0	0	0	0	0	4	5
Total Conversion Losses	79	0	607	0	66	0	18	0	810	1579
Domestic Demand for Primary Energy										
Primary Energy	2886	0	1123	2	3284	0	568	1112	1154	10129
Export Demand										
Total Energy Exports	2401	284	847	99	3199	0	0	0	0	6830
Conversions for Export [e]										
Electricity	2	0	5	-99	3	0	0	73	15	0
NGL Production Reprocessing	5	-5	0	0	0	0	0	0	0	0
Total Conversions	7	-5	5	-99	3	0	0	73	15	0
Conversion Losses-Export										
Electricity Generation	5	0	9	0	5	0	0	0	38	57
Export Demand for Primary Energy [f]										
Primary Energy [f]	2413	279	861	0	3207	0	1	73	53	6887
Total Primary Demand [g]	5299	279	1984	2	6491	0	569	1186	1207	17016
Primary Domestic Production	5132	279	1651	0	4870	0	569	1186	1207	14892
Primary Energy Imports [g]	92	0	334	2	1621	0	0	0	0	2048
Total Primary Supply [h]	5224	279	1984	2	6491	0	569	1186	1207	16940

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		2000 - High Tech								Total
Domestic Demand	Natural Gas	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	
End Use	Gas	Coke Gas								
Residential	659	22	1	562	192	0	96	0	0	1532
Commercial	476	15	0	464	71	0	0	0	0	1026
Petrochemical	214	272	0	0	149	0	0	0	0	635
Industrial	1183	30	248	897	316	23	487	0	0	3184
Transportation	10	34	0	6	2120	0	0	0	0	2169
Road	10	34	0	6	1671	0	0	0	0	1720
Rail	0	0	0	0	100	0	0	0	0	100
Air	0	0	0	0	224	0	0	0	0	224
Marine	0	0	0	0	126	0	0	0	0	126
Non-Energy Use	0	0	0	0	237	0	0	0	0	237
Total End Use	2542	373	249	1929	3085	23	582	0	0	8783
Own Use and Losses [d]	242	5	12	136	262	0	0	0	0	657
Conversions for Domestic Use [e]										
Electricity Generation	114	0	329	-2056	44	0	24	1194	351	0
Refinery Propane Production	0	-37	0	0	37	0	0	0	0	0
Refinery Butanes Production	0	-33	0	0	33	0	0	0	0	0
Butane used in Refineries	0	57	0	0	-57	0	0	0	0	0
Steam Production	1	0	0	0	2	-23	0	0	19	0
NGL Production from Reprocessing	287	-287	0	0	0	0	0	0	0	0
Total Conversions	402	-300	329	-2056	59	-23	24	1194	371	0
Conversion Losses-Domestic										
Electricity Generation	141	0	679	0	88	0	27	0	863	1797
Coke Production	0	0	13	0	0	0	0	0	0	13
Steam Production	0	0	0	0	1	0	0	0	5	6
Total Conversion Losses	141	0	692	0	88	0	27	0	868	1816
Domestic Demand for Primary Energy	3327	78	1282	9	3494	0	633	1194	1238	11255
Export Demand										
Total Energy Exports	2575	164	875	85	3643	0	0	0	0	7342
Conversions for Export [e]										
Electricity	4	0	8	-85	3	0	0	58	13	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	4	0	8	-85	3	0	0	58	13	0
Conversion Losses-Export										
Electricity Generation	5	0	16	0	4	0	0	0	31	56
Export Demand for Primary Energy [f]	2584	164	899	0	3650	0	1	58	43	7398
Total Primary Demand [g]	5911	242	2180	9	7144	0	634	1251	1282	18653
Primary Domestic Production	5347	242	1743	0	5451	0	634	1251	1282	15949
Primary Energy Imports [g]	285	0	438	9	1692	0	0	0	0	2425
Total Primary Supply [h]	5632	242	2180	9	7144	0	634	1251	1282	18374

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)		2005 - High Tech								
Domestic Demand	Natural	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use	Gas		Coke Gas							
Residential	699	24	1	611	166	0	97	0	0	1598
Commercial	505	16	0	504	68	0	0	0	0	1093
Petrochemical	242	316	0	0	164	0	0	0	0	722
Industrial	1341	34	278	1003	346	26	530	0	0	3558
Transportation	14	37	0	7	2285	0	0	0	0	2343
Road	14	37	0	7	1794	0	0	0	0	1852
Rail	0	0	0	0	104	0	0	0	0	104
Air	0	0	0	0	249	0	0	0	0	249
Marine	0	0	0	0	138	0	0	0	0	138
Non-Energy Use	0	0	0	0	247	0	0	0	0	247
Total End Use	2801	426	279	2125	3277	26	627	0	0	9561
Own Use and Losses [d]	303	5	13	150	281	0	0	0	0	752
Conversions for Domestic Use [e]										
Electricity Generation	165	0	397	-2257	54	0	24	1259	358	0
Refinery Propane Production	0	-38	0	0	38	0	0	0	0	0
Refinery Butanes Production	0	-34	0	0	34	0	0	0	0	0
Butane used in Refineries	0	61	0	0	-61	0	0	0	0	0
Steam Production	1	0	0	0	2	-26	0	0	22	0
NGL Production from Reprocessing	314	-314	0	0	0	0	0	0	0	0
Total Conversions	481	-325	397	-2257	67	-26	24	1259	380	0
Conversion Losses-Domestic										
Electricity Generation	183	0	800	0	106	0	27	0	879	1995
Coke Production	0	0	14	0	0	0	0	0	0	14
Steam Production	0	0	0	0	1	0	0	0	5	6
Total Conversion Losses	183	0	814	0	107	0	27	0	885	2016
Domestic Demand for Primary Energy	3768	106	1504	17	3731	0	678	1259	1264	12328
Export Demand										
Total Energy Exports	2909	137	908	78	3552	0	0	0	0	7584
Conversions for Export [e]										
Electricity	5	0	13	-78	2	0	0	51	6	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	5	0	13	-78	2	0	0	51	6	0
Conversion Losses-Export										
Electricity Generation	7	0	26	0	3	0	0	0	15	51
Export Demand for Primary Energy [f]	2921	137	947	0	3557	0	1	51	21	7635
Total Primary Demand [g]	6689	243	2450	17	7289	0	679	1310	1286	19963
Primary Domestic Production	6187	243	1841	0	5454	0	679	1310	1286	17000
Primary Energy Imports [g]	342	0	609	17	1835	0	0	0	0	2803
Total Primary Supply [h]	6529	243	2450	17	7289	0	679	1310	1286	19803

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

[b] Differences in oil supply and disposition result from differences in conversion factors.

[c] Hydro is converted at 3.6 GJ/MWh. Nuclear and fossil fuel sources are converted on the basis of specific plant thermal efficiencies.

[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

[e] A negative number indicates conversion of another energy form into the subject energy form. A positive number indicates the subject energy source is converted to some other energy form.

[f] Includes oil products exports.

[g] Includes imports of oil products.

[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Table A12-1

Total Energy Balance - Canada

(Petajoules)										2010 - High Tech
Domestic Demand	Natural	NGL [a]	Coal, Coke	Electricity	Oil [b]	Steam	Renewable	Hydro [c]	Nuclear [c]	Total
End Use	Gas		Coke Gas							
Residential	744	25	1	666	144	0	98	0	0	1679
Commercial	530	16	0	548	67	0	0	0	0	1161
Petrochemical	271	362	0	0	180	0	0	0	0	813
Industrial	1483	37	302	1095	371	28	571	0	0	3886
Transportation	18	39	0	9	2428	0	0	0	0	2494
Road	18	39	0	9	1896	0	0	0	0	1962
Rail	0	0	0	0	109	0	0	0	0	109
Air	0	0	0	0	274	0	0	0	0	274
Marine	0	0	0	0	149	0	0	0	0	149
Non-Energy Use	0	0	0	0	259	0	0	0	0	259
Total End Use	3046	480	303	2318	3449	28	670	0	0	10292
Own Use and Losses [d]	372	6	14	164	295	0	0	0	0	851
Conversions for Domestic Use [e]										
Electricity Generation	248	0	446	-2465	57	0	24	1341	348	0
Refinery Propane Production	0	-39	0	0	39	0	0	0	0	0
Refinery Butanes Production	0	-34	0	0	34	0	0	0	0	0
Butane used in Refineries	0	64	0	0	-64	0	0	0	0	0
Steam Production	2	0	0	0	2	-28	0	0	24	0
NGL Production from Reprocessing	363	-363	0	0	0	0	0	0	0	0
Total Conversions	613	-372	446	-2465	69	-28	24	1341	372	0
Conversion Losses-Domestic										
Electricity Generation	279	0	890	0	117	0	27	0	855	2168
Coke Production	0	0	16	0	0	0	0	0	0	16
Steam Production	0	0	0	0	1	0	0	0	6	7
Total Conversion Losses	279	0	906	0	118	0	27	0	861	2191
Domestic Demand for Primary Energy	4310	113	1669	17	3930	0	721	1341	1233	13334
Export Demand										
Total Energy Exports	3536	160	949	66	3251	0	0	0	0	7963
Conversions for Export [e]										
Electricity	4	0	14	-66	1	0	0	44	3	0
NGL Production Reprocessing	0	0	0	0	0	0	0	0	0	0
Total Conversions	4	0	14	-66	1	0	0	44	3	0
Conversion Losses-Export										
Electricity Generation	5	0	26	0	0	0	0	0	7	39
Export Demand for Primary Energy [f]	3545	160	989	0	3252	0	1	44	10	8002
Total Primary Demand [g]	7855	273	2658	17	7183	0	721	1385	1243	21336
Primary Domestic Production	7158	274	2026	0	5160	0	721	1385	1243	17968
Primary Energy Imports [g]	399	0	632	17	2023	0	0	0	0	3071
Total Primary Supply [h]	7557	274	2658	17	7183	0	721	1385	1243	21039

Notes: [a] Natural gas liquids domestic demand is assumed to be met from refineries, reprocessing and primary supply in that order.

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[d] Includes own use and losses associated with domestic end use and exports. Own use includes pipeline fuel and reprocessing fuel for natural gas, energy industry fuel for NGL, losses in the production of coke for coal, transmission and distribution losses for electricity and refinery and terminal consumption for oil.

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[f] Includes oil products exports.

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[h] Demand and Supply may not balance due to inventory changes and differences between data sources in estimates of processing losses, pipeline fuel and energy conversion factors.

Canada

